

# Manufacturers Record

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EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

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## Is It Fair, or Does the Golden Rule Hold in Tariff Matters?

**B**EFORE the annual meeting of the American Iron & Steel Institute some years ago, Willis L. King, vice-president and general manager of the Jones & Laughlin Steel Corporation, one of the outstanding steel concerns of America, and vice-president of the American Iron & Steel Institute, made an address on The Golden Rule in Business, based on the Divine command "Do unto others as ye would that they should do unto you." It was a wonderful presentation of his claim that the Golden Rule is applicable in every avenue of business life. It is applicable, said Mr. King in his memorable address, to the manufacturer dealing with his employees, his competitor, his customers and all others alike. He was enthusiastically applauded.

It was followed by a stirring address by William B. Dickson, then vice-president of the U. S. Steel Corporation, who emphasized the fact that he was speaking individually and not as an officer of the Corporation. In his address he took strong ground in favor of employees, stating that as manufacturers set aside a depreciation fund for worn out machinery, they must also set aside a depreciation fund for worn out employees, and those injured by accidents, so that they might be taken care of without having to resort to the courts. At the close of the meeting the editor of the MANUFACTURERS RECORD said to Mr. Dickson: "You have taken more advanced ground than I have ever seen presented by any officer of any labor organization." His reply was "I am satisfied that my position is correct and that eventually manufacturers will have to adopt this proposition of their own volition, or else be forced to do so by law."

George W. Perkins, then of J. P. Morgan & Co., and a member of the Executive Committee of the Steel Corporation, discussed the papers that had been presented, giving strong endorsement to the Golden Rule views of Mr. King. Another of high standing in the steel industry arose and said "What has been said here today means the hastening of the coming of the Prince of Peace on earth" and as that was strongly applauded, the writer turned to a friend sitting near him and remarked that he would not be surprised if the meeting was closed with prayer. That was the spirit of friendship and cooperation and fellowship which had followed the wonderful work of Judge Gary at the so-called "Gary dinners," to which the editor of this paper had been invited every month and through which he became a charter member of the American Iron and Steel Institute.

At one of these dinners one of the great steel leaders of the country, commending Judge Gary's efforts to bring about a spirit of friendship and cooperation in the iron and steel

trade, stated that at first he had been opposed to it, because, "I was raised in a school of every man for himself and the devil take the hindmost, but I am now convinced that Judge Gary's position is the true one."

In the light of the present tariff discussion, the question may well be asked—Do the iron and steel men of today still hold to the view that the Golden Rule is applicable to dealing with employees, competitors, consumers and all other interests with which they come in touch?

Is it fair, or in accordance with the Golden Rule, that the American Iron and Steel Institute, through its Board of Directors, and without consultation with its large membership, should pass a resolution in favor of free manganese, with Charles M. Schwab, president of the Iron and Steel Institute, and the dominating factor in the Bethlehem Steel Corporation, which is a heavy user of manganese, and while the son of one of the leading officers of that organization is, according to repeated publications and not denied so far as we have ever heard, the representative in this country of the manganese interests of the Soviet Government?

Is it fair, or in accordance with the Golden Rule, that the Steel Corporation, with its tremendous power, should join with the Bethlehem Corporation in seeking to secure free manganese, while both of these organizations have a protective duty on their products? Are they more interested in giving employment to the laborers of the Soviet Government and to those of Brazil than they are in creating employment for American workmen engaged in the operation of American manganese interests, and thus broadening the market for American farm products? It cannot any longer be claimed, we believe, that America cannot produce all of the manganese needed for its requirements. At least, would it not be fair for these interests demanding a tariff on their own product, to be willing to say to the manganese producers of America "we will be fair and square with you and cooperate in securing a duty on manganese and join with you, through the purchase of your ores, in creating a successful manganese industry in this country"?

Surely the steel organizations can make no claim in behalf of free manganese on any basis that they are not making sufficient earnings, nor on any claim that they will give to the consumers the benefit of any saving made by having free manganese.

Was it quite fair, or in accordance with the Golden Rule, for the directors of the Baltimore Association of Commerce to pass a resolution in favor of free manganese, merely because it was desired by the Bethlehem Steel Corporation, which has a great plant here, and because the importation

of manganese might add a few thousand dollars to the actual port trade of the city and in doing so deliberately slap in the face the manganese interests of Virginia and Georgia, where large manganese deposits are being developed and the manganese interests of other Southern states, a region upon which Baltimore's domestic trade very largely depends? Did the members of the Board of Directors of that organization consider the manganese interests and developments of the South, or did they all vote blindly without consulting the membership of the organization? If so, was it fair to the South, or in accordance with the Golden Rule?

Is it fair, or in accordance with the Golden Rule, that the stockholders and employes of the American cement plants which have been forced to close because of the importation of cheap foreign cement, should be denied proper protection? The American workman and American investor in the American cement industry certainly have a just claim in demanding that they be protected against the low-wage and low-living standards of foreign countries.

Would it not be fair and in accordance with the Golden Rule that such a great soap making concern, for instance, as Procter & Gamble, one of whose officers has been a financial "angel" in times past for the Republican party, while another of its officers has been an outstanding leader in religious and philanthropic work, to come out unselfishly in behalf of the welfare of the producers in this country of the so-called raw materials they use and say, in doing so, that as we would have others do unto us we favor a protective duty on all so-called raw materials which enter into our business?

Would it not be quite fair and in accordance with the Golden Rule that the great paint interests of the country, with their vast accumulated wealth, as some of them have to their credit, should favor a duty on the raw materials which enter into their product, knowing their prosperity would be increased by the general prosperity of the producers of these so-called raw materials, a truism which every other concern in the country might learn to its own benefit, for in the long run their prosperity will depend upon the prosperity of the country?

Is it quite fair, or in accordance with the Golden Rule, that the cotton manufacturers, under the leadership of New England men on the House and Senate Committees, should demand a protective tariff on their product while insisting upon free trade on cotton, although we are importing about 350,000 bales of cotton a year, much of it coming from India and some long staple cotton from Egypt?

Is it quite fair, or in accordance with the Golden Rule, that jute products should come in free to the extent of 1,000,000,000 yards a year in direct competition with Southern cotton, when jute is raised and is manufactured by about the lowest paid labor in all the world, except, perhaps, the iron and steel workers of India?

Under the Underwood Tariff Bill, jute products were put on the free list and promptly several of the biggest jute manufacturing concerns of this country, unable to compete with the jute manufacturers of Calcutta, moved their plants to that city and one of them openly announced that they were doing so by reason of the fact that they could secure labor there at 15 to 17 cents a day, and they said that that was above the former rate of wages and they expected that the rate would be lowered later on.

Is it fair, or in accordance with the Golden Rule, in dealing with every line of industry in the country, that iron made in India at an average rate of wages of a few cents a day, even including skilled labor, should come into this country in competition with the iron made by American workmen who are receiving the American standard of wages?

When the wages, which had previously been on an average

of 7 or 8 cents a day, for 8000 employees in a great steel plant in India, including skilled labor, were raised to an average of 10 cents a day a few years ago, the wealthy East Indian, who dominated the ownership of the plant, protested to the manager, an American engineer, against these wages on the ground that they were entirely too high.

Are we going to permit countries, who have so little regard for the wages of workers, to help to break down the wages of America, merely that we may be able to buy things, perhaps, a little cheaper at the start, but which in the end would cost still more by reason of that inevitable change which takes place when once a great industry succeeds in destroying its competitors by lower prices? They then advance their prices to make up the loss. That has been the rule of European concerns dealing with America. Perhaps it is not entirely unknown to some American business interests, who may have been guilty of similar instances in times past.

Is it quite fair, or in accordance with the Golden Rule, that the National City Bank of New York and other great banking interests, with their vast wealth and tremendous influence, because of their heavy investments in Cuban sugar properties, should fight against a protective tariff on sugar, that this country may develop in Louisiana and Florida and Texas its cane sugar business and in the West its beet sugar business? Are these people more interested in the employment of the poorly paid laborers in Cuba than in the laborers in the sugar growing interests of this country?

And so we might run through one industry after another. We might, for instance, mention the protection that has been given to the aluminum interests, piling up vast fortunes, and yet demanding free bauxite, the raw material which comes from Arkansas and other parts of the South, furnishing the basis for this great and ever-growing wealthy industry. All down the line there are similar instances where a policy for protection is based on selfish interests in demanding a protective tariff on the goods produced, but fighting against a duty on the raw materials, so-called, which enter into the production of these goods. When once anything has been touched by the hand of labor it is no longer a raw material. Manganese, clays, bauxite, oil, cotton, and other products of the country, are not raw materials for the producers of them. They are as much the finished product as is the watch spring which is produced as the final finished product of the steel.

Are the statements made some years ago by Mr. King and others at the American Iron and Steel Institute meeting, which thrilled every hearer in the belief that a new era had opened upon American industry, and which seemed correct then, out of date at the present time?

Is there so much selfishness in human nature that the whole tariff fight must be made the basis of "every man for himself and the devil take the hindmost"?

Is there not enough fairness on the part of Mr. Schwab, an enthusiastic worker for the benefit of American workmen; on the part of the Steel Corporation, with its vast and ever-increasing power; on the part of Procter & Gamble, and other great soap makers; the Sherwin-Williams Company and other great paint makers—all successful and abounding in wealth—to stand squarely on an unselfish platform and say that they will, in the interest of national safety, in the interest of American labor, for the upbuilding of the general prosperity of this country, based on full wages toward American labor and the creation of new employment for American labor, and because they are ready to do unto others what they would wish others to do unto them, to stand for a well rounded, full protective tariff duty on all the products which they consume and which they class, perhaps, as raw materials?

Is there not enough fairness on the part of Mr. Schwab, Congress and the Senate to stand on the same platform and



fight it out to the end, to make sure this present tariff will be one which will ever redound to the honor and advancement of American business interests, without regard to party affiliations, or to the power of vested interests?

Is there not enough statesmanship among Congressmen to put aside political affiliations and discuss the great economic question which concerns the future of agriculture and industry in America? One cannot thrive permanently without the other. One cannot thrive permanently at the expense of the other, even though for the time being there may seem to be abounding prosperity in some lines of industry and not in others, or in agriculture.

Woe be unto the industry which believes that it can go on piling up great profits for its own selfish interests without taking into account the necessity of following the Golden Rule in carrying forward its business operations and in vigorously and aggressively standing for fairness in its tariff fight—a fight which means more for the future of the country than can be well understood at present.

If selfishness prevails in the making of this tariff, then those responsible for it will some day rue the fact that they put selfishness above patriotism and their own supposed immediate prosperity above that Divine command "Do unto others as ye would that they should do unto you."

Surely the spirit of friendship and cooperation which formerly existed did not die with Judge Gary, for Mr. Schwab and many other steel leaders, admitting that they had been sinners in the past in the matter of cut-throat competition, had been thoroughly converted to Judge Gary's plan for following the Golden Rule in all operations of the steel companies.

A story told by John D. Rockefeller to one of his friends, and said by some to be one of his favorite jokes, is that of a tramp who had been advised by a fellow tramp that if he went to a certain house and claimed great piety he would get an ample dinner. As the good lady of the house came to the door, and he asked for something to eat, he said: "Madam, you can see from the way the knees of my trousers are worn out that I have been a much-praying man." Taking pity on such a pious person she fed the tramp bountifully, but as he turned to leave, the good woman noticed that the seat of the tramp's trousers were as badly worn as the knees. Calling him back, she said: "I thought you said that the knees of your trousers had been worn out by kneeling in prayer so often, but I find that the seat is just as badly worn out." "Yes, madam," said the tramp, "you see I have been a great backslider."

We hope that our good friend Mr. Schwab, and the other officials of the Bethlehem Corporation and of the Steel Corporation, have not been "backsliders" from the profession which they made under Judge Gary's leadership of cooperation and friendship to every branch of the iron and steel trade, and that includes manganese, and the same principle would apply with equal force to all the other so-called raw materials.

### THE SOUTH A REVELATION TO HIM

**R**OBERT C. MITCHELL, president of the Connecticut Milk Producers' Association of Hartford, in acknowledging receipt of a copy of the Blue Book of Southern Progress, writes:

"I have been much interested in it, in fact, it was a revelation to me, and I wish more Northern men could read it. The better we understand one another's problems the better our cooperative attitude toward a solution of our mutual problems which seem to increase as our country grows.

"I have always been greatly interested in the South, especially its people, who seem to have a friendliness and a most gracious hospitality all their own, which to me is very pleasing."

### MODIFICATION OF GOVERNMENT'S DRASTIC REGULATIONS ON FLORIDA PRODUCTS

**A**FTER irreparable damage has been done by regulations entirely too drastic by the Federal Government, as to the raising and handling of Florida fruit and vegetables, these regulations have been greatly modified. At first it was announced that Florida would not be able to permit any fruit to be ripened prior to December 1. Now the revised regulation changes this to September 1 and makes a good many other betterments in the regulations.

In addition to the radical regulations in regard to citrus fruit, farmers were not allowed to produce many kinds of vegetables, such as tomatoes, beans, peas, eggplant and many other varieties, even for their own family use. The result was that the whole agricultural business of Florida was practically placed under an embargo, not only against shipment to other states but actually for home uses. All of this was done not simply to destroy the Mediterranean fly in Florida but to prevent its spread to other parts of the country. Even Florida fruit then located in other parts of the country was forbidden to be shipped to other states.

In the whole history of the country no such drastic regulations were ever before issued against the products of any one state. If when the corn borer attacked the corn of the West the Federal Government had decreed that not an ear of corn should be raised in the entire West for 12 months while the corn borer was being fought, it would not have carried out so drastic a plan as that which it undertook in Florida. Or, if, when the boll weevil attacked the cotton crop of the South, the Federal Government had issued a decree that for 12 months not a pound of cotton should be raised in the South, nor even the foodstuffs needed for the sustenance of the people on the farms, its action would have been more far-reaching at large, but would not have been more drastic on the South as a whole than the regulations issued in Florida in the fight against the Mediterranean fly.

As these drastic regulations by the Federal Government were for the protection of other parts of the country, in order that the fly might not spread beyond Florida, the whole country should bear the burden of the loss inflicted upon Florida. If the Federal Government were to pay into that State \$50,000,000 to \$100,000,000 as a free gift to re-establish the financial interests that had to suspend because of its unwise activities in its quarantine regulations, and pay to the growers their losses, it would not do more than would be fair and just to that State. The modification—which has just gone into effect—of the former drastic regulations is in itself a proof that the Department of Agriculture acted too hastily and without due consideration of the effect on business interests of its quarantine against the production or shipment of Florida fruit or vegetables. Scientific men adopted these regulations, doubtless without studying the whole business problem or giving a fair degree of attention to the facts that could have been presented by leading business men of the State on the whole subject. Now that the Department of Agriculture has largely reversed itself one can easily see what a blunder was made by the first regulations.

Florida will immensely benefit from this complete modification of the former drastic regulations of the department, but great losses already have unwisely been inflicted upon that State.

The urgency of the Mediterranean fruit fly situation has prompted Secretary of Agriculture, Arthur M. Hyde, to ask Congress during the special session for an additional \$30,000,000 to the \$10,000,000 announced for the fight against the pest.

## BIG PACKERS APPEALING FOR HELP AGAINST CHAIN STORES

A large number of the big packing-houses of the country, such as Armour & Co., Anglo-American Provision Co., Hammond Packing Co., and many others are appealing to the Supreme Court for a modification of the "consent decree" agreed upon in 1920, by which these concerns were not to engage in the retail trade. In a very lengthy petition to the Supreme Court it is stated that since 1920 there have been fundamental changes in marketing conditions and in marketing food products throughout the United States.

The merchandising of food products, says this statement, through the phenomenal development of the food chain-store organizations which have effected an integration in the grocery business by entering into the manufacture, the purchase in wholesale quantities, and more particularly the distribution and sale at retail through their thousands of retail marketing outlets of the food products mentioned in the decree; and the entry of these powerful food chain-store organizations into the meat business, including the manufacturing, processing and retailing of meats, and meat food products in connection with other food products, are some of the reasons why a change is now desired.

Dr. Palmer, professor of marketing in the School of Commerce and Administration at the University of Chicago, is quoted as saying:

"The extensive application of the chain idea to retail distribution in my opinion has had more significant and far-reaching consequences than any other single development in the field of marketing in the last two decades. It has created entirely new problems for manufacturers, wholesalers and retailers; has forced the adoption of new methods of marketing; has compelled practically every agency engaged in distribution to exhaust its every resource to reduce its cost and improve its methods of marketing; has brought about a wholesale elimination of such agencies as have been unable to meet this new competition; has brought into being an endless number of experiments in distribution which under the old order would never have been conceived; has in no small number of cases resulted in a decided shifting of the balance of power from one agency to another; and has set many people to wondering just what the phenomenal growth of this new industrial giant, the chain store, will be in the next decade and what it ought to mean to them."

According to published reports, the Great Atlantic & Pacific Tea Company, as an illustration, has grown from 4,246 stores and \$194,646,959 sales in 1920, to 18,000 stores and sales of over \$900,000,000 in 1928.

A survey of chain store grocery markets 1927-28, by a trade authority on grocery chain stores, shows that the percentage of retail grocery business done by chain stores in certain of the larger cities of the country is as follows:

City	Per Cent
Newark	75
Jacksonville	75
Columbus	73
Dallas	72
Cleveland	70
Tulsa	67
Nashville	65
New York	65
Philadelphia	65
Washington, D. C.	65
Memphis	66
Jersey City	65
Boston	61
Detroit	60
Norfolk	60
Rochester	60
Chicago	50

According to this appeal to the Supreme Court, chain food stores now own and operate approximately 12,000 meat markets, one organization having already installed 2400 retail meat markets. Livestock organizations, disturbed by this situation, fearing the control of the meat trade by the chain

stores, have appealed for a change of the decision against the packers.

This action of the big packers of the country as against a decision which prevents their competition with the chain stores only serves to illustrate the tremendous power that chain-store organizations are beginning to have over all business interests. Under this system it is possible for a chain-store organization practically to fix the prices at which it will buy farm products, because if the farmers do not sell at the price the chain store people consider reasonable for them, they can easily go into the field and by raising food-stuffs on a large scale set a price that the farmers must accept or fail to find a buyer.

A few months ago a friend of the MANUFACTURERS RECORD wrote this paper that a personal acquaintance of his had been employed at a salary of \$10,000 a year to manage for a big chain store a 4,000-acre potato farm to be established in a certain Southern state. That company absolutely denied any knowledge of the affair; but our friend, a prominent business man, still insists that his friend is being paid a salary of \$10,000 to run the farm for that concern.

## SOUTH'S DUTY TO PROTECT ITS PRODUCTS

D R. J. S. GRASTY, geologist of Staunton, Va., who is thoroughly familiar with the manganese situation of much of the South, writes from New York as follows:

"I see in the New York Herald of August 18 that your advice to Southern Democrats about the tariff is quoted in an article by Theodore C. Wallen—page 1—and in another by Mark Sullivan in section 3 of the same edition.

"I hope that it is being quoted widely also in the Southern papers. If it will have the effect of causing Southern congressmen and senators to do their plain duty it will be worth many, many millions of dollars to the South.

"I was amazed to learn that the Senate Finance Committee voted 6 to 5 to place manganese on the free list. That is not surprising, however, as most of these senators are from states in which manganese does not occur. Now here is the opportunity for Southern senators to put into effect just what you advise, for manganese ore occurs in Virginia, Tennessee, North Carolina and Georgia, and also manganiferous ores are found in Alabama. The question is—will they for the sake of archaic free trade ideas allow this industry to be destroyed."

J. E. Edgerton, president of the Tennessee Manufacturers Association and also of the National Association of Manufacturers, writing to this paper in regard to the open editorial letter addressed to the free-traders of the South, which appeared in the August 8 issue of the MANUFACTURERS RECORD, said:

"I fervently wish that not only every manufacturer, but every other responsible citizen in the Southern portion of this country could read that letter. I do not see how anyone could successfully meet the argument which you advance so excellently."

## AN EXPERT'S JUDGMENT

COL. HENRY G. HESTER, the secretary and superintendent—for so many years that the memory of man runneth not to the contrary—of the New Orleans Cotton Exchange and one of the world's chief authorities on cotton, in the course of a letter to this paper writes:

"The constructive work of the MANUFACTURERS RECORD in behalf of our Southern country is appreciated throughout the length and breadth of the South."





Mill Village at Saratoga Victory Mills, Albertville, Ala.

This village accommodates 63 families in bungalows having electric lights, running water, sewerage and other modern facilities.

## The Business Romance of Rogers Caldwell

A YOUNG and new representative of a Chicago bond house was about to bid on a Tennessee county bond issue offered in 1914 when he was handed a telegram which said that his firm, because of the imminence of war, would not be able to handle the bonds and he need not attempt to buy them. This telegram started Rogers Caldwell, son of James E. Caldwell and heir to one of Nashville's largest fortunes, on the road that led to a real business romance. It inspired him to organize a business which in a comparatively short time has financed the construction of many public buildings, schools and bridges, hotels, hospitals and office buildings, large and varied industrial enterprises in the

Southern states, and has otherwise helped to inspire the section and influence expansion in many lines of activities.

Originally, Rogers Caldwell was an insurance man who became interested in highway construction and turned to bond buying. In 1916 the house of Caldwell & Company was formally opened in Nashville, and young Caldwell stepped out of the parental fold of James E. Caldwell & Sons, insurance, and into the bond buying business. A high-building era had developed and he traveled over the South, attending the letting of contracts, at first interested in writing surety bonds for firms who were successful bidders, but later buying bond issues himself. Also,

the war established good feeling between the different sections of the country and made it easier to sell Southern bonds; Caldwell & Company in 10 years disposed of between \$250,000,000 and \$300,000,000 of Southern securities.

The firm is now one of the largest investment banking houses in the South; it does a national business in securities and has 22 branch offices scattered from New York to San Francisco. A majority of these branches, however, are located in the Southern states; for Caldwell & Company, early in its brief history, adopted the slogan, "We Bank on the South." The greater part of its security business is transacted in municipal bonds, and the firm has underwritten



\$1,800,000 Lookout Mountain Hotel Near Chattanooga, Completed in 1928

Designed especially to suit the commanding site it occupies and built of native weathered stone and stucco, every room in this structure is an outside room. An imposing tower, 140 feet high carries a large beacon light. The R. H. Hunt Co., Dallas and Chattanooga, was the architect and the Underwood Contracting Corporation, New Orleans, general contractor.

issues of such securities in practically every state in the South, handling in the aggregate many millions of dollars of such business.

In the industrial field the financing done by the company has been wide and varied, probably the most important re-

cent work of this character having been in insurance. An instance is the prominent part it played in the development of the Missouri State Life Insurance Company, now reputed to be the third largest stock life insurance company in the United States, with over \$1,000,000,-

000 of life insurance in force. That company recently took over the assets and business of the International Life Insurance Company of St. Louis. The Inter-Southern Life Insurance Company of Louisville, while a smaller company, is one of the fastest-growing companies in



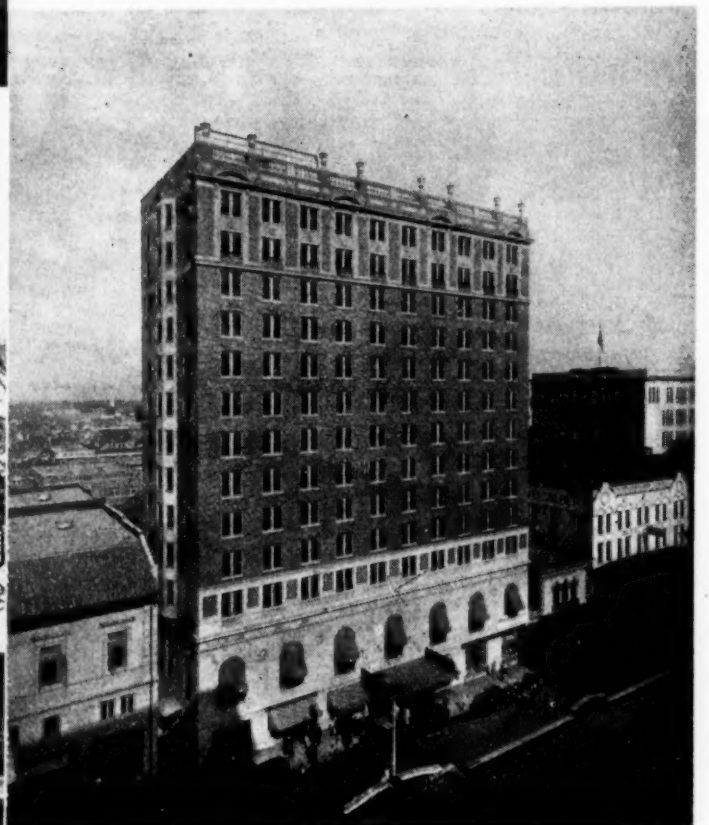
\$3,000,000 425-Room Kentucky Hotel, Louisville



National Memphis Garage, Capacity 500 Cars



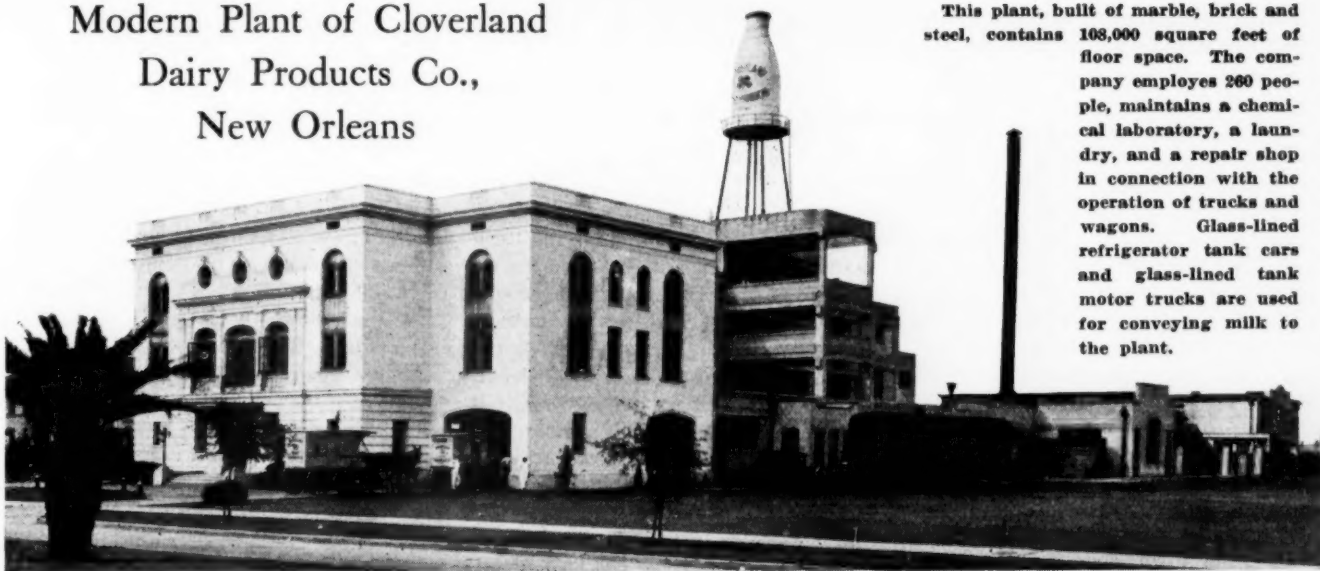
\$1,000,000 Jefferson Davis Hotel, Montgomery, Ala.



New Hotel Carling at Jacksonville, Fla.



## Modern Plant of Cloverland Dairy Products Co., New Orleans



This plant, built of marble, brick and steel, contains 108,000 square feet of floor space. The company employs 260 people, maintains a chemical laboratory, a laundry, and a repair shop in connection with the operation of trucks and wagons. Glass-lined refrigerator tank cars and glass-lined tank motor trucks are used for conveying milk to the plant.

the South, having written during 1928 a large amount of insurance in Kentucky. The Southern Surety Company is another Caldwell company and is a surety and casualty company of considerable size.

In the banking field, recent activities of Mr. Caldwell include a merger of the Manhattan Savings Bank of Memphis with the Union and Planters Bank of the same city, the capital of the combined companies ranking with the largest

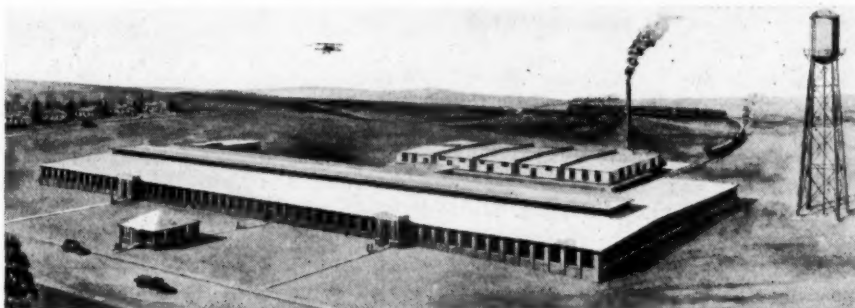
new Commercial National Bank & Trust Company of New York.

Among recent activities of Caldwell & Company in the industrial field have been the formation and the financing of the Alabama Mills, a \$3,000,000 corporation, with 10 textile plants in Alabama; financing the Saratoga-Victory Mills, a subsidiary of the American Manufacturing Company, capitalized at \$13,000,000, which recently established two large

hotels in the South, on Lookout Mountain near Chattanooga. The reorganization and offering of capital stock in the Allen Manufacturing Company, a leading manufacturer of quality parlor furnaces, constitutes another important financial undertaking of the company, while also the formation of Shares in The South, Inc., a pioneer investment trust organized to deal primarily in Southern securities, is one of the major projects under-

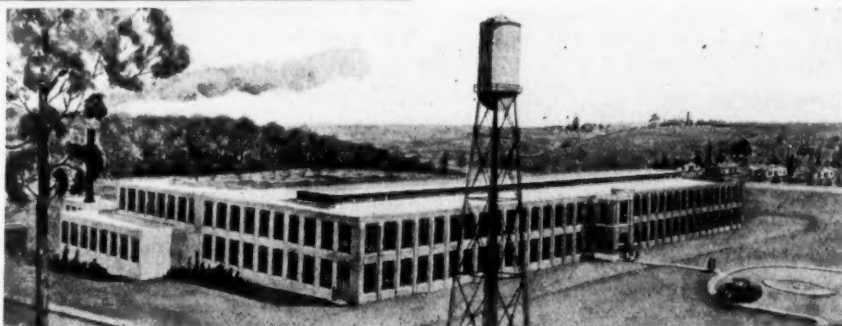
## Two New Mills Completed Recently in Alabama

Plants at Albertville and Guntersville of the Saratoga Victory Mills,  
controlled by the American Manufacturing Co., Brooklyn, N. Y.



Products manufactured at these two plants include carded and combed linings, twills, sateen, plain and dobby handkerchief cloth, all sold in the grey direct to converters.

Both units are of brick and steel, daylight construction, built after plans by Robert & Co., Inc., engineers, Atlanta, Ga. Smith & Williams Co., Inc., Atlanta, are the general contractors. Each mill has 16,000 spindles and about 540 automatic looms.



banks in the South. The Holston-Union National Bank of Knoxville and the Bank of Tennessee, Nashville, are other institutions in which Mr. Caldwell is interested, and also he is a director in the

plants in the South; financing the Associated Motor Terminals, a company operating a chain of downtown storage garages in St. Louis; and the Lookout Mountain Hotel, one of the finest resort

taken by the firm. Acquisition of controlling interest in the Associated Home Insurance Companies of Arkansas marks the most recent development in the expansion of Caldwell & Company, these

companies handling life and accident, casualty and fire risks, and having combined assets of approximately \$10,000,000.

Less recent financing has included the Gray-Knox Marble Company and the Laurel Heights Apartments of Knoxville; Wesson Oil & Snowdrift Company, New Orleans; the Alligator Company, manufacturer of raincoats, St. Louis; Atlanta Laundries, a consolidation of several independent laundries in that city; Cloverland Dairy Products Company, New Orleans; Gillican-Chipley Company, large producers of resin and turpentine; the Kentucky Rock Asphalt Company, whose paving material is used on highways in nearly every state and in many of the country's largest cities; Tennessee Products Company, which mines and sells coal, iron ore, gas and various other mineral products; and the Layne & Bowler Company, a leading manufacturer of water pumps. First mortgage financing has included the Carling Hotel, Jacksonville; Bankhead Hotel, Birmingham; Andrew Jackson Hotel, Nashville; Kentucky Hotel, Louisville, and Jefferson Davis Hotel, Montgomery, Ala.

Despite his many and varied business activities, Mr. Caldwell has taken time to play, to read and to study. He loves dogs and horses and has raised some that have won blue ribbons. His personality is pictured by a writer who said: "Nobody works for Rogers Caldwell—they work with him. His capacity for leadership is revealed in numerous small ways. He is credited with the 'salvaging' of many men who were about to become human derelicts. His bonuses and other expressions of goodwill toward his men and humanity at large have long been town talk."

### The Women and Children Discuss It

W. T. Morgan, attorney-at-law, of Marion, N. C., in hearty commendation of the work of this paper, writes:

"I take time to read every issue of it, and to discuss with my wife and son and daughter, who are yet in the grades, various matters which you discuss and present of sound, high thinking and inspiration especially to us of the South."

Would that every thinking man in the South would take into his family circle the facts presented from week to week in the MANUFACTURERS RECORD and discuss every phase of Southern business and ethical life with their wives and their sons and their daughters. What an inspiration such discussions would be to the rising generation, and what an infinite value it would be to them and to the South itself, and thus to the country.

## The Whispering Campaign Against Florida

By W. R. O'NEAL, President, First National Bank and Trust Co., Orlando, Fla.

Many are asking the questions, "What is the real cause or reason for the bank failures and financial disturbances in Florida?" "Is it the result of the boom, the storms, or the Mediterranean fly?"

To anyone who is familiar with the history of the State, the answer seems simple. Prior to 1895 those who lived here were here from choice. They cultivated the soil, raised herds of cattle, or engaged in orange culture, and the state was in prosperous condition. The unprecedented cold wave which came in the beginning of 1895 changed every condition in the state. A new Florida was born. To grow crops to feed the people became the paramount problem. This developed agriculture, horticulture, citrus culture, gardening, and trucking. From 1895 to 1925, a period of thirty years, there was a continuous, permanent and substantial development, and progress all over the state. The quality of the cattle and crops was steadily improved. Hard roads were constructed, new schools, courthouses, public utilities were constructed in almost every town. Homes were built and beautified. Progress and development were everywhere. Merchants, mechanics, contractors and builders and banks did a safe and conservative business. Investors were satisfied. Capital was continually seeking new outlets, with absolute confidence in the value of the security.

In the beginning of 1925 the real estate speculative mania reached Florida in its most virulent form. Professional promoters came from everywhere, few of them having any capital save a suit of clothes and a diamond stick-pin. With them came the camp followers, advertisers, solicitors, auctioneers, contract men, stenographers, bookkeepers, mechanics, salesmen of all kinds, the purpose of all of them being to create a boom.

Hotels and boarding houses, merchants, newspapers, banks were all compelled to add to their forces to take care of the business. All over the United States the word went out—"Easy money in Florida." Most of them came seeking for positions that paid more than the places from which they came; bank clerks, bookkeepers, stenographers, all those who were disgruntled with the work they were doing, and looking for "easy money." Investors with money hunted bargains that could be turned in 24 hours at 100 per cent profit. Loans were made with the 20 per cent bonus to people without security or responsi-

bility, and then—the real estate turnover stopped. All lines of business were compelled of necessity to reduce their overhead. Banks, abstract offices, lawyers, real estate offices were compelled to curtail their forces.

Every speculator and investor who sought "easy money" wanted it back at once. Every salesman, clerk, stenographer, mechanic who was out of a position began to discuss with everyone who would listen to him the great disaster which had come to the state. Every merchant of necessity reduced his force; the disappointed and disgruntled former employes, from a supposed inside knowledge, began to say, "this merchant has lost a great deal of money, was overloaded with stock and bad accounts, could not get credit, and must fail." Banks were said to have taken over a large amount of real estate, with high values, and could not meet their obligations. It was a whispering campaign about everything and every person.

The manufacturers who had been so zealously promoting sales of all their articles on long installments, and finance companies who financed their paper, immediately notified their salesmen to enforce collections and cut off credit, all of which was calculated to bring disquiet to the timid. Few cared to make a public statement for which they could be held responsible, but the insidious campaign continued against every institution and every individual by statements made without knowledge or information, by the people who seemingly were anxious to wreck everything and every person within the state. This grew in volume as communicated one to the other. Apparently many desired to precipitate a panic. Statements have been made and passed on that were creations of disordered minds. The characters of men who have given their lives to the development of the state have been assailed and vilified. Many men have suffered and gone down, poisoned by shafts of an evil-thinking mind. The entire matter of the economic situation in Florida has not been brought about by storms, boom or Mediterranean fly, but by a whispering campaign which, whether intended or not, resulted in bringing about a lack of confidence in values, in business and in banks.

Jefferson County, Texas, voted \$1,000,000 bond issue to erect new courthouse at Beaumont.



# American Ships and American Prosperity

By E. M. HERR, Vice-Chairman of the Board, Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa.



E. M. Herr  
Vice-Chairman of the  
Board, Westinghouse  
Elec. & Mfg. Co.

As a direct result of the sound economic policies which have been pursued by both American industry and the American government, the people of the United States have enjoyed unprecedented prosperity, during the past few years. The extensive use of power in industry, the development of the system of mass production for a large number of manufactured articles, and the rapid practical application of the discoveries of science and research have greatly increased our national productivity and our national wealth. This added wealth, contrary to what has often happened in the past, has not been largely absorbed by a small group, but practically all who have had a hand in its creation have shared in it, so that real wages have risen, the purchasing power of the majority of our people has widely extended and the standard of living in this country has reached the highest level ever known. Finally, there is every reason to believe that those disastrous financial crises, which have periodically wiped out a large proportion of the savings accumulated in prosperous times, have been eliminated by the Federal Reserve Banking System.

Never before, in fact, has so much been accomplished for the good of so many people in such a short time.

## The Non Prosperous Minority

But, although the American people as a nation are prosperous and content, there is a minority who are actually being injured by the very processes that are benefiting their fellows. Though society as a whole gains whenever a new type of labor-saving machine is placed in operation or research discovers a better way of performing some operation, certain individuals invariably suffer loss by being thrown out of work. Experience shows that unemployment due to this cause is usually temporary, since the wealth created by the new improvement always creates a demand for labor elsewhere; but this does not ameliorate the immediate distress of the unemployed, and on more than one occasion during the past five years our industrial progress has taken place so rapidly that

thousands of families were in want for long periods of time.

To this group, which our general prosperity has failed to touch, must also be added the American farmer. Whereas the agricultural industry has made progress during the past 50 years and the average farmer of today is much better off than was his grandfather, the status of the industrial worker has improved so much more during this same period that the farmer's economic position is relatively lower than it formerly was. Hence, there is justification for the discontent that pervades many of our rural districts.

It is typical of the spirit that now dominates American affairs that these weak spots in our otherwise highly satisfactory state should command widespread attention. We can confidently believe that, in so far as it can, our national government will work out practical plans for farm relief, arrange work on public undertakings so as to reduce unemployment in times of depression and carry out other constructive measures. But while vast good can thus be accomplished, it must be recognized that government is a remover of obstacles rather than a creator of economic opportunities and that only economic remedies can permanently cure economic ills.

## Wider Markets Needed

What we chiefly need is an ever widening market for our goods. If we could constantly increase the demand for both our manufactured and our agricultural products by even a few per cent per annum, much of the slack in our production system would be taken up, unemployment would be kept down to a minimum and a much needed stimulus would be given to agriculture. In other words, one of the most effective things we can do at this time to widen the scope of our prosperity is to build up our foreign trade.

We have never, as a people, been "foreign-trade minded," like the British, for example. Though the value of our foreign commerce in 1927 was in the neighborhood of nine billion dollars, it represented only about ten per cent of our total business, and this small proportion has been maintained very closely for many years. We have in this field almost unlimited opportunities for commercial expansion but as a nation we have not taken advantage of them. The time has now arrived, however, when we must embrace all opportunities to increase our overseas markets.

Much of the task of extending our foreign trade will, of course, devolve upon commercial, industrial, financial, and political specialists, but there is one phase of it which is the concern of the American people as a whole. If we want to maintain and extend our prosperity by developing foreign trade, we must strengthen a serious weakness that now exists in our transportation system.

## Adequate Transportation Essential for Prosperity

Transportation and production are inseparable. If there is a free flow of goods from the producers to the consumers, the greater the quantity of useful articles the producers can turn out, the better off everyone concerned will be. But interfere with this flow anywhere and everyone will suffer loss; stop it, and civilization will disintegrate.

Fortunately for us, our transportation system as a whole is splendidly developed. Our railroad system is larger and more efficient than any other in the world. We own 78 per cent of all the automobiles in existence and spend billions of dollars every year for new cars and trucks and for road improvement. Our aviation system is at present in its infancy but, in view of the present public interest in this subject, no one can doubt that we shall in time be supreme in this field also.

Even in what might be called the minor branches of transportation, our position is satisfactory. We have an adequate fleet of lake-going, coast-wise, river and harbor craft, which is being increased as needed by vessels of the most modern types; we have added nearly 100,000 buses to our already extensive urban and interurban railway system; and though electric traction has had to mark time for several years because of the extremely rapid development of the automobile, it is now entering into a new era of active progress and promises to be one of the most important factors in solving the serious problems created by traffic congestion in our cities.

In striking contrast to all this, is our international transportation system.

## The Weak Spot in Our Transportation System

While on paper our sea-going merchant fleet totals 11,000,000 tons and is second only to Great Britain's, 50 per cent is probably useless and perhaps 50 per cent of the remainder is obsolete or nearly so. As to new ships, without which the effi-

ciency of our fleet cannot be maintained, only 3 per cent of the ocean-going ships built since 1923 belong to us; and during 1928 we did not spend a single cent on ships for foreign trade. The percentage of our imports and exports carried in our own ships has been slowly but surely declining since the high point of 1920, so that we are obviously in danger of slipping back into our old-time position of almost complete dependence on foreign ships for handling our sea-borne commerce.

#### Blood Thicker Than Water

We should, indeed, be ungracious if we were to criticize the shipping service that foreign nations have rendered us in normal times; nevertheless, blood is thicker than water, and a ship is always bound to its mother country by strong political and economic ties. On more than one occasion we have been left in the lurch, with our products, many of them perishable, piled upon our wharves because ships of foreign register, on which we were depending for transport, were suddenly drawn elsewhere for some reason that was no concern of ours.

A closely parallel situation would exist in our domestic transportation system if the great majority of our freight locomotives and trucks were under foreign ownership and control and were liable at any time to be withdrawn from our service and sent to Canada or Mexico. Obviously, under such circumstances, it would be impossible to develop that fine adjustment that now exists between our production and our transportation; and our internal commerce would be but a fraction of what it is at present. And yet, if we were thoroughly accustomed to this method of handling our traffic, we would perhaps find it difficult to realize what we were losing by not taking it under our own control. We would undoubtedly, from time to time, consider the question of substituting our own rolling stock for that supplied by foreign capital, but the cost of the operation would stagger the average man, and, because of the numerous invisible factors involved, he would probably be quite unable to understand how so great an investment would benefit him personally.

For similar reasons, the American people have been slow to appreciate the value of a merchant marine of their own. As long as less than ten per cent of our business is seaborne, it does not matter very much who handles it; but if we wish to develop a large volume of foreign trade, we must have an adequate number of the right kind of ships under our own immediate control and serving primarily our own national interests, for without them we shall not be able to insure that reliability of transportation service which is essential for the success of such an undertaking.

#### Shipbuilding a Vital Industry

Another highly beneficial result of the building up of an American merchant marine would be the revitalizing of ship building in this country. Prior to the war, there were 23 shipyards in the United States building sea-going vessels; today there are but 12, and several of these are barely maintaining their existence on the odds and ends of repair work. Great Britain, on the other hand, has 57 yards and Germany has 18.

If an adequate amount of business could be given to our shipyards, a goodly share of our surplus labor would be immediately absorbed; a demand would be created for large amounts of steel, machinery and other of the innumerable supplies needed for ships; the producers of these materials would give employment to other workers, and thus an ever-widening circle of prosperity would be started. Moreover, we would save from extinction an industry that is absolutely vital to our national safety. We cannot afford to let our shipbuilding machinery decay and our technically trained shipbuilding staffs disintegrate. If we become unable to build ships to meet our needs in emergencies, we shall lose our grip on sea power and then our seaboard, our island possessions, our commerce and our prosperity would be at the mercy of any maritime nation that chose to attack us.

#### No Merchant Marine Without Public Support

The situation is more promising today than it has been for a long time. Within the past year, Congress has passed certain legislation in the interest of our shipping and shipbuilding, and there is every reason to believe that work on a number of new sea-going vessels to fly our flag will be started in the near future. *But without that widespread popular interest and support which created our railroad and our automotive transportation systems and which at present is playing so important a part in developing American commercial aviation, we shall have no merchant marine.*

This whole subject is a matter that concerns all of our people—merchants, manufacturers, public utility operators, professional men, farmers and workers—for even a moderate increase in our overseas commerce and our shipbuilding activities will result in a marked increase in the demand for labor, materials of every description, power, internal transportation and all other varieties of service, and this will benefit everybody. Our industrial and political leaders can, in fact, do few things more useful than to create public understanding of the value, to every American individually, of foreign commerce and an adequate merchant marine.

## New Type Boat for Shallow Water

What is claimed to be the only tractor boat in the world is Sunco No. 4, which recently made a trip from Nashville, Tenn., to Paducah, Ky., thence to Cairo, Ill., and other points. It is owned by the Standard Unit Navigation Company, St. Louis, Mo., who have planned a large towboat and barge construction program.

The new boat was built particularly for shallow water navigation. It is a

side wheel water tractor boat with the moving knee on the front, permitting the boat to move on the fleet of barges and acting as a rudder to the fleet. Having no rudders, it is Diesel electrically driven with two 100-horsepower Diesel Winton engines with Westinghouse motors, one on each side of each "wheel." The wheel is 26 feet long, operated on an endless chain. Paddles are perforated.



Tractor Type Towboat With an Endless Chain Paddle Wheel



# \$6,000,000 to Be Expended by Detroiters for Homes at Miami Beach

**Preliminary Dredging Contracts Let and Work to Get Under Way Soon—Men and Wealth From All Sections Will Follow Example Set, Says Editor of Miami Herald**

Following the announcement that construction operations would begin immediately in connection with the development of a high-class residential colony sponsored by Detroit capitalists at Miami Beach, Fla., the MANUFACTURERS RECORD requested Frank B. Shutts, editor of the Miami Herald, to summarize briefly the influence that would be exerted by the development, not only on Miami but on all Florida, in causing other men of wealth from various sections of the country to build homes in the state. The Florida forward-looking spirit is shown in the following telegram from Mr. Shutts:

"The decision made by a group of Detroit business men of large fortunes and wise discrimination to build a dozen winter homes at Miami Beach with all the accessories of opulent existence, at a total cost of over \$6,000,000, is significant because it finally proves that metropolitan Miami is neither dead nor languishing but in spite of all its vicissitudes is once more firmly set upon the upgrade. These gentlemen are rich enough to have gone anywhere for this purpose. They chose Miami. That is the answer to the pessimists who see nothing left for Florida.

"Their example will be followed by hundreds of other people of means and refinement from all parts of the North

who search for the pleasant and wholesome things of life that wealth can buy. In their train will come deserving thousands who seek only the joy of simple living, ideal surroundings and the normal rewards of industry.

"The reaction throughout the country will be reflected immediately not only in this territory but across the state. The nation is gradually becoming imbued with the idea that no other section offers such attractive opportunities for comfortable and healthful lives not only in the winter time but all the year round as this state does.

"Miami has come again into its own; there are no 17 ways about that. In aggregate cost, more homes and business houses are being projected or under actual construction now in this area than in any other city of three times its population anywhere on earth. 'Whom the Lord loveth, he chasteneth.' But after all, he has showered his blessings upon Miami, the sunshine and the sea, where summer spends the winter and contentment sits enthroned."

In May, property south of Baker's Haulover was acquired for the establishment and development of a residential colony, providing initially for 12 large ocean front estates on a new road, 75 feet wide and 4400 feet long to be built by the corporation handling the project. On one side of the road the 12 residence owners will control a re-

creational park, at one end of which space will be provided for a fully equipped airport. Other features of the development will embrace tennis courts, bridle paths, stables for riding horses, polo fields, a yacht club and docks, etc.

J. Julien Southerland, Miami attorney, is counsel for the owners and is handling details in connection with the necessary engineering and construction work involved. The Clark Dredging Co., Miami, has been awarded contract for dredging approximately 1,250,000 cubic yards of material at 12.6 cents a cubic yard for sand and 57 cents for rock. Completion of the job is guaranteed within three months. No other contracts have been let and none will be awarded for about 60 days or more. Since the estates will be largely upon made land it is necessary that the dredging and filling be completed before other work can get under way.

Among prominent Detroiters who will build estates are several of the Fisher brothers of the Fisher Body Co.; Joseph C. Graham, Robert C. Graham and Ray A. Graham, all of the Graham-Palge Motor Co.; W. O. Briggs, president of the Briggs Body Co., and J. Q. Goudle, assistant to Mr. Briggs.

## To Improve Power Facilities

Augusta, Ga.—A proposal of the Savannah Electric Co. to improve hydro-electric facilities on the Augusta canal has been approved by executives of five large industrial companies operating along the canal. These include the John P. King Manufacturing Co., Enterprise Manufacturing Co., the Sibley Manufacturing Co., the Globe Mills and the Sutherland Manufacturing Co. Most of these firms operate large textile mills and according to the executives the mills have been forced to work intermittently because of occasional shortages of water and hydro-electric power.

## Louisiana Gasoline Plant Addition

The Palmer Corporation, a subsidiary of the Louisiana Gas and Fuel Company, Shreveport, which recently completed a \$300,000 gasoline extraction plant at

Alto, La., capable of handling 130,000,000 cubic feet of gas daily, has awarded contract to the Stearns Rogers Manufacturing Company, Denver, Col., for extensions to the plant to handle an additional 50,000,000 cubic feet of gas daily. The cost of the addition will be about \$100,000.

## Underground Water Survey for Texas

Austin, Tex.—Upon the invitation of the State Water Board, Dr. O. E. Mizner, of the United States Geological Survey, Washington, has arrived in Texas to take charge of an underground water investigation, for which a state appropriation of \$40,000 was made. The investigations will be carried on through the co-operation of the state and federal governments, with the aid of the Texas A. & M. College and the University of Texas, both of which have been asked to participate.

## Byllesby Interests Acquire Utilities

Pikeville, Ky.—Officials of the Eastern Kentucky Utilities Co. announce the sale of a number of power, light, gas, ice and water properties in Kentucky and West Virginia to the Byllesby interests of Chicago, which will probably put them under the control of the Standard Gas and Electric Corporation, it is said. In addition to the local company, other properties involved in the deal include the Prestonburg Gas Co., Paintsville Gas and Water Co., Salyersville Gas, Electric and Ice Co., the West Liberty Electric and Gas Co., the Louisa Light and Power Co., the Crystal Ice and Cold Storage Co., and the Kenova (W. Va.) Ice Co.

The school district of St. Joseph, Mo., A. L. Loving, secretary and business manager, sold \$500,000 4 per cent school bonds to the Tootle-Lacy National Bank, St. Joseph, and associates at \$473,953.

# NATURAL GAS SUPPLY

## Now Available to El Paso

Difficult construction problems surmounted in building 218-mile electrically welded line from New Mexico gas field through desert and mountainous country



"Bell Hole Welding" With a Fusion Welder

**A** NATURAL gas supply, brought over 200 miles through the recently completed pipe line of the El Paso Natural Gas Co., was heralded to citizens of El Paso, Texas, by an aerial bombing demonstration, which formed the feature of the ceremonies attending actual flowing of gas into the city mains.

The new pipe line, electrically welded almost its entire length, extends from the Lea County gas fields in southeast New Mexico, westerly to Clint, Texas, and thence to the industrial district of El Paso. To form this 218-mile stretch of pipe, 30-foot lengths of 16 inch bell and spigot pipe were joined together by 65 portable electric arc welding machines, except where it was necessary to make a few acetylene welds. This pipe has quarter-inch walls, weighs 42,057 pounds per foot, has a tensile strength of 60,000 pounds and a working pressure of 450 pounds. In constructing the line, the 30-foot lengths were first joined into sections of five to eight lengths, usually seven, by tack welding and then were welded by the "firing line welders." As this welding operation progressed, the pipe was turned by tongs. These sections were then joined by the "bell hole method" in which a hole is dug for the welder who works completely around the pipe as it rests stationary over the ditch.

Accordion type expansion joints were used at every seventh joint through level

country and at more frequent intervals when needed. Sixteen-inch gas valves, with a working pressure of 650 pounds are placed at frequent intervals along the line, 6-inch blowoffs being installed on each side of these valves. At depressions along the line, 16-inch ladder drips



Sections Are Turned for the "Bell Hole" Welder by Tong Shown in Illustration

Note shields to protect welders from sand storms.

are used to catch condensation, and about every five miles one-inch syphons are installed. Orifice meter stations are placed at the gathering and distributing ends of the line and also about midway of the project.

All undercrossings of canals, highways and railroads are enclosed in steel casings with vent holes at either end. Where the soil of the country through which the line passes is non-corrosive, two heavy coats of paint were applied

and where the soil was corrosive, one coat of No. 1 air blown asphalt was applied hot to the pipe which was then wrapped with Johns-Manville asbestos felt tied with copper wire.

Piling exposed to the air supports the line where it crosses the salt marshes west of the Guadalupe Mountains, long sleeve couplings, made by S. R. Dresser Manufacturing Co., Bradford, Pa., being placed every four joints along this part of the line. Over the 12-ton highway bridge spanning the Pecos River the 16-inch line is manifolded into two 12-inch pipes welded solid the entire bridge section with long sleeve Dresser couplings at each end. At the Guadalupe Mountain crossing the line attains a 40 per cent slope where it passes over a rimrock above the valley below. The pipe here is anchored at frequent intervals by concrete piers set in solid rock, expansion joints being used between every pier.

A telephone line of complete metallic circuit, with booths at regular intervals, follows the pipeline and connects with the Bell system at El Paso. A road is being built also to follow the pipeline its entire length.

Because of a pressure of between 1400 and 1500 pounds per square inch maintained at the wells, it will not be necessary to install compressor stations, unless the El Paso market expands greatly.



Unloading Shipment of Pipe at Clint, Texas, East of El Paso

Note the special crane fitted on the automobile truck, also trailer-equipped auto-truck for hauling long lengths of pipe to the job





Arc Roll Welding on the 16-Inch Pipe

The wells now under contract by the company, located in a field 30 miles by 4 miles, have a daily open flow capacity of 350,000,000 cubic feet of gas practically dry and free of sulphur.

In cutting the ditch, five Buckeye and three Barber-Greene ditchers were used. In the rock work a number of air compressors and Jackhammer drills were employed. The air equipment included Ingersoll-Rand and Sullivan products.

The isolated desert and mountainous country through which the pipeline passes presented many difficulties to the constructors. Sandstorms occurred often and during such disturbances it was necessary to protect the welders by shields, which completely housed the operations. Extreme sandy soil necessitated hauling by tractors only in construction of the first 50 miles of the 185-mile stretch of pipeline from Jal, the starting point, to Clint, Texas. Along this entire 185 miles the line crosses only two highways and one railroad, and but four or five ranch houses are visible, the closest of these being within a mile of the right-of-way. The 50-mile portion of this section which extends west from Red Bluff, N. M., through the "gyp country" and the Delaware Mountains, was the most difficult to build. It was during construction of this section that 15 miles of solid rock was encountered, blasting of the ditches being required the entire distance.

Average distance of hauling pipe for the project was about 50 miles. Supplies, including water, also had to be transported long distances because of lack of supply centers and extreme aridity of the surrounding areas. At times during construction of the line there was insufficient growth to furnish fuel for pipe bending.

Smith Brothers, Inc., El Paso, con-

structed the line under a turnkey contract. The engineers and inspectors were Brokaw, Dixon, Garner & McKee, New York. Pipe and the accordion type expansion joints were furnished by the A. O. Smith Corporation, Milwaukee, Wis. Gate valves by the Westcott Valve Co., Inc., East St. Louis, Ill. Asbestos was furnished by Johns-Manville, Inc., New York; paint, by Texas Company, New York. Specially designed milling machines for testing purposes were

is the vice-president and general manager; Sam H. Benbow, Houston, secretary-treasurer; and A. L. Forbes, Jr., El Paso, general superintendent. The board of directors is composed of: Paul Kayser, H. G. Frost, J. W. Colvin and A. C. Howard, all of Houston; and W. J. K. Vanston, C. M. Weld and R. S. Jarvis of New York.

White, Weld and Company, New York, financed the company. C. Minot Weld of Weld & Liddell, New York, reported



Bridge Constructed for Pipe Line Where It Crosses the Pecos River, Near Red Bluff, New Mexico

manufactured by John T. Burr & Sons, Brooklyn, N. Y. The welding apparatus used was manufactured by the General Electric Co., Schenectady, N. Y., the Lincoln Electric Co., Cleveland, Ohio, and the Fusion Welding Corporation, Chicago. In welding, the joints were made up by using Weldit "Yellow Jacket"  $\frac{5}{32}$ -inch rod, having string bead and finished with Weldit No. 18 rod,  $\frac{3}{16}$ -inch in diameter, using four pounds of rod per joint. Pipe was handled and lowered by tractors equipped with Wilson, McManus & Cohen winches and booms.

The El Paso Natural Gas Company is under the direction of Paul Kayser, Houston, who is president; H. G. Frost

on the project for the bankers; A. Faison Dixon of Brokaw, Dixon, Garner & McKee, New York, reported on the gas supply.

### \$1,000,000 Railway Terminal

Beaumont, Tex.—The Kansas City Southern Railway Co. plans to begin about September 1 the construction of a \$1,000,000 terminal on a 125-acre tract south of this city, to handle traffic of the deepwater ports of the Sabine district. Facilities will include switching yard, machine shops, roundhouse, storehouses and dwellings for employes.

## The New Tariff As Proposed Carries Some Blunders

Under Free Trade in Manganese; and, No Consideration of Many Free Raw Materials; Favorable Trade Balance a Myth; Faulty Memory of United States Tariff Commissioner Dennis

[An analysis of the proposed tariff bill by Wilbur F. Wakeman, in this issue of the MANUFACTURERS RECORD, deserves very careful study on the part of the business men of the country as well as of every member of Congress. No one need for a moment imagine that the Senate tariff bill is going to be passed as it stands. There will be a fight in the Senate which will wax hot and heavy. In many respects the bill is unjust and unfair, pre-eminently so to the South. Here is an opportunity for Southern men to rise above party affiliation and stand for protective duties on the products of the South and thus co-operate with the honest-minded protectionists of the Republican side, who believe in protection as a principle and not merely as a party measure. The MANUFACTURERS RECORD has repeatedly taken the ground that this present tariff fight should be continued, if necessary, through the special session and on into the regular session of Congress until a bill fair to all interests is finally submitted for passage.—Editor MANUFACTURERS RECORD.]

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, District of New York.

Number 24.

"THE tariff is, as always, unsatisfactory," said Judge Gary of the United States Steel Corporation in his forecast of business conditions in December, 1922, three months after the adoption of the tariff act of that year. Soon after publication of his forecast, Judge Gary, in a personal conference explained to me that the "unsatisfactory" points in the new tariff applied especially to minerals, naming manganese and tungsten. The same criticism was expressed to me since then by the present assistant to the president of the Steel Corporation and other steel manufacturers, indicating that the attitude of big industrials is for free raw materials. It would seem that the Senate Finance Committee responsible for the tariff of 1922 was made of sterner stuff than the present one, for the steel lobby, a very strong one at that time, was unable to materially change the rates of duty in that tariff, established by the House of Representatives. Now comes the United States Steel Corporation with its five year contract or concession with Soviet Russia for manganese ores, and the Republican members of the Senate Finance Committee recommend that these ores be placed upon the free list, which if adopted will destroy that industry in our country. A similar policy of legislation applied to other so-called raw materials would eventually cause the downfall of the American system of Protection.

Reference has been made from time to time to "bloc" support of adequate protection to the many products on the free list, and now we have "bloc" opposition to the abolishment of duties by the friends of manganese ore mining industry. The friends of American production in the U. S. Senate and House of Representatives—they are in a majority—should get together and work as a unit for legislation which will develop and maintain any and every industry which

gives employment to American labor and capital, and not permit the effacement of any industry now established and supplying investment for labor and capital.

One of the greatest difficulties in the way of a well-balanced tariff is the complete fusion or confusion in the minds of every senator who is not a well-grounded protectionist. This is aided and abetted by the desire to secure some political advantage. To illustrate, Senator Wheeler of Montana, a very able man, speaking politically, referred to the Hawley bill as a "price insurance" and a great burden upon the people. The very next day, speaking in an economic sense, Senator Wheeler is out with a drastic statement against the removal of the manganese duty in which he said, "To put it on the free list means that many communities where manganese ore is being produced will be ruined." More appropriate would it have been for him to have said, "The free listing of manganese which will bring ruin to communities in my state, and of other raw materials shall not prevail if my friends and I can prevent."

Many years ago the woolen manufacturers were quite in favor of free wool. Reams of manuscript pro and con, found their way into print; campaigns were fought on the question; but, the practical finish of free wool was made at an annual dinner of the American Woolen Manufacturers Association at New York. Senator Francis E. Warren of Wyoming was the leading speaker, who for quite a few minutes read a prepared speech, dry statistics and facts. Finally he discarded his manuscript with such a jerk that it scattered in different directions, stopped speaking but did not take his seat. Abruptly, his face aflame with determination, he said, "And, I am a wool grower as well as a protectionist.

You people may know what to expect if wool does not have an adequate protective tariff." The banqueters seemed stunned by his vehemence, and they realized what his attitude would be in the Senate, and that protective tariff duties would have to apply to wool and woollens and not to woollens alone. The campaign among woolen manufacturers for free wool stopped then and there.

Cotton growers deserve protection as well as wool growers and the same may be said of miners, producers of oils—vegetable and mineral—citrus fruits, vegetables, and indeed all products of the soil. Without scheduling I include every American product which may be subject to foreign competition, in the list of needful protective tariff provisions.

The tariff is no longer a party dividing line as shown by the declarations of both great parties in 1928, consequently each and every individual member of Congress should be held responsible for care of our continued prosperity by and through tariff legislation.

It is unfortunate that the publicity bureau of the Democratic National Committee at Washington in charge of that capable writer, Charles Michelson, should maintain a consecutive policy of exploiting the abandoned policy of free trade, by the attacks upon all schedules of the Hawley bill, using any Congressman desiring publicity to this end. No political party can win that opposes the National Policy of Protection to all American industry—from the raw material to the finished product. The Republican party is playing with fire through the exceptions to Protection already recommended in the Hawley bill—similar exceptions and favoritism to industrials having been the basic cause of the overthrow of protection in Great Britain in the early forties of the last century. Is the policy of Protection which is respon-



sible for the world-leadership by America today to be abandoned?

#### Professor Dennis' Memory Faulty

"The new tariff bill as it emerged from the House puts Argentine hides for the first time on the dutiable list," is what Vice Chairman Alfred P. Dennis of the United States Tariff Commission is reported to have said before the Institute of Public Affairs at Charlottesville, Va., on August 6. Inaccurate statements like this make an entire speech misleading to the reader; and for a member of the United States Tariff Commission to have made such a statement is astonishing. The Dingley tariff of 1897 which prevailed without amendment for over 12 years included a tariff of 15 per cent on hides, and would have been continued in the Payne-Aldrich tariff excepting for the influence of the New York leather "swamp," and the boot and shoe interests.

Professor Dennis referred to tariff protection having become "the cornerstone of our national economy" and then proceeds to peck at it via Argentine boycott of American exports. He says:

"Our best customers have both the temper and disposition to boycott our goods. The Argentinians, for example, have four strings to their bow as purveyors to the United States. Their most important exports are beef, flaxseed, corn and hides."

It is assumed that Professor Dennis knows that the American farmer is somewhat interested in these products, and is entitled to adequate protection in the tariff of 1929.

Professor Dennis is worried about placing a duty on what he calls infinitesimals or where imports are small—less than one per cent of national production and says:

"This doctrine of excluding foreign infinitesimals from our market is one that will plague us in the end."

Considering his inaccuracy regarding the tariff on hides, Professor Dennis doubtless does not remember that when the McKinley tariff placed a duty on tin plate our production was practically nil, and yet today we lead the world in its manufacture. Following his argument we might omit a tariff on manganese ore, but it is hoped that it will be found dutiable in our new tariff by amendment from the Senate floor, notwithstanding the recent great purchases of such ore by steel interests from Soviet Russia, and the recent action of Republican members of the Senate Finance Committee.

In his writings or speeches Tariff Commissioner Dennis generally keeps within protection "geography," but includes side lines which destroy any real argument in favor of a consistent protective tariff policy. It is hoped that

his official administrative efforts may be more in line with protection than his public utterances.

#### Favorable Balance of Trade a Myth

The Metropolitan press is jubilant over our foreign trade and "favorable balance of trade" based upon the mid-year report of the Treasury Department, reported for the six months ending June 30, as follows: Imports, \$2,286,353,421 against \$2,085,931,925 for 1928; and exports, \$2,623,244,521 against \$2,377,988,277 in 1928. The export balance is thus apparently \$336,891,110. But is it? Of outgoing merchandise or exports, the greater proportion of it represents basic materials, the prices of which are published daily and are as well known abroad as here; consequently, the total value of exports may be considered approximately correct. Not so with imports, the statistics for which are taken from the invoices of foreign exporters of merchandise to this country. That is, the statistics of imports are based upon the undervalued imports of dutiable foreign merchandise. It has often been asserted that the only imports representing correct valuation are those which come in free of duty, and that imports which are dutiable on an ad valorem basis are 40 per cent undervalued. It is conservatively estimated that the total value of imports should be increased as a basis of comparison by about \$400,000,000 on account of undervaluations. That is, our apparent favorable balance of trade disappears—it is a myth.

It is gratifying that our exports are large, but will they continue at the present volume when the vast sums of expatriated American capital get to work in foreign factories with their cheap labor? Their output will certainly displace a large quantity of American exports, but this is not very important if we can still have the opportunity of producing whatever is natural to our soil and climate through a protective tariff. Before the Institute of Politics at Williamstown, recently, Matthew Woll, Vice-President of the American Federation of Labor, presented the dangers of the present foreign trade policy of Americans, and in part, said:

"Our developing foreign investment policy is involving a menace to the well being of our masses and the security of our national future. We have come to a sharp turn in the road. We face a new problem."

As is well known the American domestic trade is more than nine times the export trade, and the nearer we get to a complete supply of all our own needs the more certain is our prosperity through non-dependence upon foreign products. Potential possibilities of complete development is suggested in a French volume recently published, entitled, "New York

'28, Impressions d'Amerique," by Andre Lafond, reviewed by the N. Y. Evening Post, in the following words:

"The customs policy of the United States is that of Protectionist. That is easy to understand. The United States can suffice for all her needs. Nothing is missing, except perhaps rubber. As a matter of fact, the United States can live absolutely upon her own resources. Hence the policy of protection."

#### Abilene's New Hotel and Theater

Abilene, Tex.—Plans have been completed for a 16-story hotel and theater building to be erected in this city by H. O. Wooten, local capitalist, and associates. Excavation work began several weeks ago. The Wooten building when completed will be the highest in west Texas, covering a ground area 140 by 150 feet. The first three stories of the hotel will cover the full size of the foundation; 13 stories will be 50 by 75 feet each. It will have a total of 154 guest rooms, with large lobby, coffee shop and four stores on the ground floor. The



16-Story Hotel, With Theater Building at Right.

second floor will provide space for a ballroom, private dining rooms and a lounge. The City Club, recently organized, will have the third floor. A laundry and other service facilities will be housed in a basement under the entire structure. The theater, which will be the height of a four-story building, will have seating accommodations for 1600.

The David S. Castle Company, Abilene, is the architect. Al Badger, formerly of Dallas and San Angelo, and associates will operate the hotel. The Dent Theatres, Inc., Dallas, have taken a long term lease on the theater. The hotel and the theater are to be completed and ready for use by April 1, 1930.

## 29,250 Miles of State Highways Improved in 1928

**Texas and Arkansas Lead in Year's Improvement—Over \$760,000,000 Expended by States for Roads and Bridges**

During 1928 the 48 States improved a total of 29,252 miles of their highway systems, according to figures received from the States and compiled by the Bureau of Public Roads of the United States Department of Agriculture. This is an increase of 2530 miles over the 1927 figure of 26,722 miles.

The 1928 total includes 8675 miles of graded and drained roads and 20,577 miles of new surfacing. Of the roads surfaced 13,843 miles were previously unsurfaced and 3587 miles were previously improved with a type of surface lower than the one newly applied. The remaining 3147 miles were previously improved with the same type of surface, and the work done during the year is therefore classed as reconstruction.

The total of 20,577 miles of surfacing placed is classified by types as follows:

- 1200 miles of sand-clay and topsoil;
- 9623 miles of gravel;
- 1006 miles of water-bound macadam;
- 1979 miles of bituminous macadam;
- 225 miles of sheet asphalt;
- 373 miles of bituminous concrete;
- 6055 miles of Portland cement concrete, and
- 116 miles of brick and other block pavements.

Texas heads the States in the year's improvement with 2356 miles. Kansas

with 1785 miles, ranks second; Arkansas, with 1673, is third. Iowa improved 1345 miles and Illinois, 1344, ranking fourth and fifth respectively. Minnesota, with 1243 miles, is sixth; North Dakota, with 1230, is seventh; New Mexico, with 1052, is eighth; Kentucky, with 1021, is ninth, and Ohio, with 927 miles is tenth.

The State systems at the end of 1928 had 306,442 miles of highways, according to figures given to the Bureau. Of this total, 193,138 miles were surfaced roads, 31,755 miles graded and drained, and 81,549 miles were unimproved and partly graded highways. This is an increase of 13,090 miles over the 1927 total figure. The surfaced mileage is made up of the following types of pavement: 13,499 miles of sand-clay and topsoil; 93,124 miles of gravel; 18,142 miles of water-bound macadam; 15,200 miles of bituminous macadam; 1498 miles of sheet asphalt; 5392 miles of bituminous concrete; 42,957 miles of Portland cement concrete; and 3326 miles of brick and other block pavements.

During 1928, the States spent \$764,648,134 for State highway and bridge work under the supervision of the State highway departments, made up as follows: For construction and right of way \$536,294,303; for maintenance \$158,878,573; for equipment and machinery \$20,505,483; for interest on outstanding

bonds and notes \$37,637,034, and for miscellaneous expense \$11,332,741. The States also paid out \$27,016,499 in retirement of the principal of outstanding bonds and notes and transferred \$35,885,350 to county and town funds for local roads, making a total disbursement of \$827,549,983. At the end of 1928, there was an unexpended balance of available funds amounting to \$205,221,565 for all States.

For 1928, there was available to the 48 States for State highway and bridge work under supervision of State highway departments a total of \$1,035,486,474, made up of an unexpended balance of the previous year's funds of \$186,159,876 and a total income of \$849,326,598. Of the total income, motor vehicle fees of \$259,134,820 and gasoline tax receipts of \$234,163,826 allotted to State highways represent over 58 per cent. Sales of State bonds and notes issued for State highways of \$121,483,599 form more than 14 per cent of the total income, while Federal-aid fund allotments of \$80,798,365 represent more than 9½ per cent. Highway taxes levied in several States amounted to \$11,955,782, and appropriations by several States amounted to \$42,468,386. Miscellaneous incomes were reported as \$12,611,916 and funds transferred from local authorities as \$86,709,904.

### World's Potash Output 1,900,000 Tons—Marked Increase in Domestic Production and Consumption

The world's potash production last year may be conservatively estimated as somewhat over 1,900,000 tons of actual potash, according to a report to be submitted to the Division of Fertilizer Chemistry of the American Chemical Society at the seventy-eighth meeting of the Society to be held in Minneapolis September 9-13.

In the United States production amounted to 104,000 short tons potash salts, equivalent to 60,000 tons of actual potash, an increase of 38 per cent over that of the preceding year and valued at over \$3,000,000. During the same period, however, 976,000 tons of potash salts of a total value of \$22,500,000 were imported for domestic consumption. This

represents an increase of 33 per cent. Thus, while there was a marked increase in domestic production, there was a corresponding increase in consumption which called for increased imports.

### Bids for Canal Bonds

Daytona Beach, Fla.—By authorization of the Florida Inland Navigation District East Coast Canal Commission, Charles F. Burgman of this city, chairman, bids will be opened in Jacksonville October 15 for the purchase of \$750,000 canal-purchase bonds and for an amount not exceeding \$250,000 of right-of-way bonds. The commission has ordered more speed in arranging details for turning over to the United States government the old East Coast canal, for the deepening of which an appropriation of \$4,220,000 has been made with an additional appropriation of \$125,000 annually for maintenance.

### \$1,000,000 Apartments Under Way

St. Louis, Mo.—Foundation work is in progress for a \$1,000,000 apartment building to be erected at 625 Skinker boulevard for the Skinker Northwood Investment Company, of which R. H. McRoberts is president. The building will be 16 stories on a site 144 by 150 feet and will contain 46 suites of seven and eight rooms each, with a garage for about 90 cars. F. G. Avis, St. Louis, is the architect.

### \$2,000,000 Oil Refinery

Belle Chasse, La.—Work is proceeding on the \$2,000,000 plant being erected here for the Big Chief Oil Refining Co. and production is expected to start in December. The plant will employ 100 workers. F. N. Lusher is president of the company.



# Industrialization of the South— Past and Present

A Presentation of the South Before the Institute of Public Affairs, University of Virginia, August 10, 1929.  
Because of Limitation of Space the Paper Is Being Published in Two Parts; the first appeared August 22.

By RICHARD H. EDMONDS.

## Part II.

**T**WO outstanding factors in Southern business conditions must be understood ere one can rightly comprehend the achievements of the South of the present day and the prospect of the future.

The first is the inherited trait of scientific and industrial life which has come down to the present generation from the people of the Old South. That explains the ability of the people of the present generation and those who came out of the Civil War to turn their attention to the successful operation of mineral and industrial interests.

Prior to the invention of the cotton gin, the South was industrially minded. In Colonial days iron-making and kindred activities were dominant in many parts of the South and, as Swank said of the early pioneers in Virginia, the Carolinas, Tennessee and Georgia, "they seem to have been born with a genius for iron-making." The development of the cotton industry, following the invention of the cotton gin, concentrated the thought of the South upon cotton growing and an increase of slavery to produce more cotton, but when cotton reached its low price in the decade between 1840 and 1849 the thought of the South again turned to industrial development and also to rapid railroad building. In many places in the Carolinas cotton mills are now built almost on the site of iron works of antebellum days, many of which were in operation in that section up to the time of the Civil War.

The terrific losses of the Civil War and the Reconstruction period, and the immigration from the Central South, because of lack of opportunity at home, of five million Southern whites between 1865 and 1900, made in the aggregate the greatest drain which history records any country having had to endure. The men who came out of the war, however, and those who have followed, both in the South and in other parts of the country, have demonstrated the inherited traits of character for business management, for finance, for science and for industrial operations seen in every part of the United States to an extent but slightly comprehended by anyone who has not given the subject close study. In this situation alone there is a great epic yet to be written of the achievements of Southern men since 1865 matching the achievements of their forbears as leaders in science, in industry, in finance and in agriculture prior to 1860.

## The Almighty Selected Warm Climate for the Highest Civilizations of Ancient Times

Another factor that must receive due consideration in studying the present and the future of the South is its climatic advantages. These are unquestionably of commanding importance. Some people not familiar with the South's climatic conditions have labored under the impression that as one steps across the Mason and Dixon line he lands in the tropics and is under the disadvantages of tropical life. Nothing could be farther from the truth. Stretching all the way down through the Coast country, the Piedmont region and the mountain region of the South, there is almost every variety of climate that man can desire. For general business, and especially for industrial operations, it is an important fact that the South has a longer daylight period during the winter and a shorter daylight period during the summer than have Northern and Western sections of the country. The summers of the South are longer than the summers of the North and West, but tens of thousands of people from the North and West, and from Canada, unhesitatingly say that they far prefer, for instance, the climate of Florida during the summer to that of their former homes. The same thing is true as to the climate of the Mississippi Gulf Coast and of many other sections of the lower country, while in the Piedmont and mountain regions can be found a duplication of the colder climate of far Canada. The highest mountain peaks this side of the Rocky Mountains are in the Carolinas, in Tennessee and in Texas, and for industries of any and every kind locations can be selected with any range of climate that may be desired for employers and employees. There are over 50 peaks, each over 5000 feet in elevation, in the mountain region of Carolina and Tennessee.

Moreover, it must be forever remembered that warm climates have produced the greatest civilizations and the greatest individual leaders in the world.

The outstanding man in Europe, more forceful for good or for evil than any other man in Europe today, is Mussolini, a product of a warm country.

Napoleon, who was acclaimed as "the greatest military genius that ever bestrode the earth," was born and reared in a warm country.

Moses, the greatest law-giver that mankind has ever known, selected by the Almighty for promulgating the laws which guide human affairs today, was born and raised in a warm country.

The great painters and sculptors, and the orators of ancient days were mainly born and reared in warm countries.

The mightiest empire the world ever saw in ancient days, stretching its power over a large part of the known world, was Rome, whose statesmen and military leaders, still ranking among the greatest that the world has ever known, were born and raised in a warm country; and had not Rome become with its enormous wealth so profligate, so luxurious and so voluptuous in its life, it might for centuries have held its world dominance.

Greece, the land of great orators, of statesmen, and of sculptors, is an example of what is produced in warm countries.

The Almighty chose His people of old out of a warm country to carry His gospel through all the ages to all creation. His prophets and His priests were men of a warm country. Indeed, reverently it may be said that when the Almighty planted the Garden of Eden and created man and placed him there, He selected a warm country, and even when the Saviour of mankind, who St. John tells us was the creator of all things that were created, enwrapped Himself in mortality to come down to earth to give salvation to sinful man, He selected a warm country for His place of birth; and referring to disasters to come He said: "But pray ye that your flight be not in winter." It might almost be said that to claim that a warm country is not the best place for the development of the highest civilization is indeed a reflection upon the wisdom of the Almighty.

How dare, then, any man suggest that a warm country is not the Almighty's chosen spot in which to produce the highest type of civilization, of industry and of all that makes for the upbuilding of humanity!

#### **Any Criticism of Southern Energy and Initiative Is a Reflection Upon the Union Soldiers of 1861-65**

Any man who presumes to say that, because of its climate, the people of the South lack energy and initiative, slaps in the face the millions of Union soldiers, superbly equipped in every respect, who to the number of 2,800,000 backed by the boundless resources of the Union, were held at bay for four years by 600,000 poorly equipped and poorly fed soldiers of the Confederacy. No greater slander against the soldiers, and thus against the people of the North and West, can be uttered by any man who presumes to say that the people of the South lack energy and initiative. For four years these Confederate soldiers marched under Stonewall Jackson and others with a rapidity never surpassed in human history until Jackson's troops became known as "infantry cavalry," because

of the speed with which they marched, and met the best equipped armies of the Union in the greatest struggle which human history had known up to that time.

On one side was the South bottled up by the navy of the Union along its entire seacoast, and on its land side by Union soldiers, unable to export anything that it could produce, or import anything needed for munitions of war. On the other side were the North and the West, with their commerce open to the world, with a great navy for that day, with an established financial system, and really with the moral sentiment of the world to a very large extent back of them, because of the world's hostility to slavery.

In this situation is to be found proof which no human argument can disprove of the inherent strength, vitality, energy, initiative and indomitable strength of Southern character to meet every emergency. Today the South is meeting the business emergency through the utilization of its vast stores of raw materials. It is leading in the development and management of its cotton mills, its iron furnaces, its steel mills, its hydro-electric power plants and, thank God, instead of being opposed by the contending forces of other sections, it now finds the capital and the people of the North and West in a race to see who can share to the largest extent in furnishing capital and energy from other sections to combine with the capital and energy of the South in order that here may be created an industrial development commensurate with the limitless resources, so great that when fully utilized they will make the South the center of the world's greatest activity, and that means the center of wealth and of the blessings of education and human advancement, which flow from the accumulation of wealth rightly made and rightly used.

Proof of the energy, vitality, virility and initiative of the South is so overwhelming that anyone who attempts to discredit these facts merely writes himself down as too ignorant, or too prejudiced to be given consideration by thoughtful people.

#### **As Its Wealth Has Increased the South Has Led the Nation in Percentage of Growth in Educational Expenditures**

The accumulation of wealth through business progress and prosperity must always precede broad educational advancement. Without profit in business there can be no wealth to be expended upon the maintenance of schools and churches. The idea of some that education must precede business progress is simply reversing the natural and inevitable order of things. As the wealth of the South has increased it has been poured unstintedly into education. Splendid school buildings, rivalling the best in the country, have been erected with an almost lavish prodigality throughout the South. Public schools are crowded, colleges and universities, despite the constant enlargement of their



facilities, cannot keep pace with the demand for admission.

Tremendous strides have been made in the South in recent years in expanding both public and private educational plant facilities, in increasing the length of the public school term, and in lifting to a higher plane the methods of instruction. There have been most pronounced developments in technical training schools and expansion of engineering, textile, ceramic and other courses of study.

The United States Bureau of Education reports as of its census of 1926 a total expenditure on public education of \$2,020,000,000. Based on this report, the Southern states are now spending on public education more than \$426,000,000, over four times similar expenditures at the beginning of the World War in 1914, and equal to the amount the whole country thus spent on public education in 1910. In 1900 public school expenditures of the South were but 16 per cent of the country's total, while in 1924 similar expenditures by the South amounted to 20 per cent of the country's total, and increased to over 22 per cent in 1926.

More than \$88,000,000 was invested by the South in 1926 on new public school buildings, which was within \$3,000,000 of the aggregate amount spent for similar purposes in the United States in 1914, or six times the South's new school building expenditures in 1914, and it must be remembered that the South in 1926 had but 39,711,000 people as compared with about 100,000,000 in the United States in 1914. More than 21 per cent of the \$411,000,000 spent for new public school buildings in the United States in 1926 was in

the South, and the South's total investment in public school property is over \$980,000,000, or about 21 per cent of the country's total, despite the South's lack of the great accumulated wealth of the North and West, and the very large negro population which contributes but little to the tax income of the South.

#### Higher Wages in the South Dependent Upon Absorption of Surplus Labor Supply

So long as there is a surplus of labor in the South as at present, so long will wages necessarily be lower than they should be. Every successful enterprise started in the South increases the employment of labor, lessens the surplus supply, draws tenant farmers away from impoverished land, and gives them an opportunity to make a living in industrial work. Every new factory built and every mine opened by increasing the number of industrial employes increases the home demand for the diversified products of the farm and opens new opportunities for the young men and young women coming out of the colleges of the South, many thousands of whom have in the past gone to the North and West because of the lack of opportunity in the South.

With this betterment of labor employment, betterment of the demand for diversified farm products, increased opportunities for the young men and the young women of the South, there will be rounded out a prosperity and a civilization, an advancement in education and in all religious activities which will inevitably command the attention and the admiration of the world.

#### \$10,000,000 Cotton Export Merger

Galveston, Tex.—Involving combined assets of \$10,000,000, a merger has been effected of the Galveston Wharf Company and the Cotton Concentration Company into the Export Finance Company of Texas, details having been worked out in the office of Hutchins, Sealy & Company, Galveston bankers, who will serve as trustees of the new organization. According to George Sealy, president of both merging companies, the consolidation was effected to provide additional credit to finance the movement of commodities through this port.

#### \$750,000 Montgomery Ward Building

Oklahoma City, Okla.—Concrete work on the new \$750,000 building being erected here for Montgomery Ward & Co., Chicago, has been completed and the structure is expected to be ready for occupancy October 11. The building is 140 by 150 feet, 10 stories, of reinforced and precast concrete construction. C. H.

Getz is the architect and the Wells Brothers Construction Co., general contractors, both of Chicago. Subcontracts were awarded as follows:

Artificial stone—Algonite Stone Co., St. Louis, Mo.  
Cement, sand and gravel—Makins Sand & Gravel Co., Oklahoma City  
Electrical work—Miller Brothers, Fort Worth, Tex.  
Fire doors—Variety Fire Door Co., Chicago  
Heating, plumbing and ventilating—C. Wallace Plumbing & Heating Co., Dallas, Tex.  
Kalman cement floors—Kalman Floor Co., Chicago.  
Metal windows—Campbell Metal Window Corp., Baltimore, Md.  
Millwork—Oklahoma Sash & Door Co., Oklahoma City  
Plastering—A. E. Maidt, Oklahoma City  
Reinforcing steel—J. B. Klein Steel Co., Oklahoma City  
Steel sash—William Bayley Co., Springfield, Ohio  
Structural steel—Kansas City Structural Steel Co., Kansas City, Mo.  
Terrazzo—J. B. Martina Mosaic Co., Denver, Colo.

Montgomery, Ala., sold \$800,000 of a \$1,300,000 bond issue jointly to two syndicates, one of which is headed by Lehman Bros., New York, and the other by Caldwell & Co., Nashville, Tenn.

#### \$346,000,000 CONSTRUCTION PROGRAM IN NEW ORLEANS

##### Diversity of Building, Engineering and Public Utility Projects Under Way and Outlined

New Orleans, La.—According to figures compiled by the New Orleans Association of Commerce, construction projects actually under way or definitely planned for New Orleans represent a cost of \$346,000,000. It is estimated that a total of \$18,500,000 will be expended within the next five years for public utilities and that \$100,000,000 will be expended for flood control. Other major undertakings include the intracoastal canal, \$9,752,000; inner harbor navigation canal, \$2,000,000; city street paving, \$20,000,000; public works, \$14,700,000; Illinois-Central railroad station, \$8,000,000, and schools, \$2,000,000. In addition, heavy expenditures will be made for bridges, auditorium, criminal courts building and other structures.

# IRON, STEEL AND METAL MARKET

## Steel Maintains Its Pace

Pittsburgh, August 26—[Special.]—On all hands steel consumption is proceeding at former rates, with two exceptions, and prospects are favorable for a continuance until something definite occurs to change the situation. The two exceptions are automobiles and rails, but neither one shows more seasonal decline than usual. Automobile production is running according to past seasonal experience and rail production last month and this is heavier than usual for these months. It is decreasing and as usual will be relatively light in September.

As to automobile production, there is an astonishingly close relation between monthly variation this year and the average monthly variation of the last five years. The months have averaged less than 2 per cent variation either way from seasonal experience. July production of cars and trucks, United States and Canada, was 517,792, or 22 per cent under the peak production of April, while in the last five years July has averaged 19 per cent under April. If the same fidelity to precedent is shown in the last five months the year's total will be 6,250,000, or 35 per cent increase over 1928, a remarkable gain seeing that there was a total increase of only 10 per cent in five years from 1923 to 1928.

Fabricated structural steel statistics make a promising showing, July bookings being officially reported at 350 tons, making one of the very best months on record. The seven months of the year show 22 per cent gain over the same period of last year. An important point in the statistics is that in the last six months bookings have been steadily in excess of shipments, by 16 per cent, showing an increase in the order book of the industry and promising heavy requirements upon the steel mills for some time to come.

The freight car shop situation is not so promising as it will not be long until the shops run out of orders unless there is more buying than there has been of late. As the car shops have been consuming only about 4 per cent of all the steel made lately this is not of much consequence.

This month's steel production will in all probability run between 5 and 10 per cent under the all-time peak rate of May. This is not a seasonal decrease as according to the seasonal precedent, completely broken this year, increases would now be in order, but all reports are there will be a little further decrease next month. Just now some mills are re-

plenishing stocks of crude steel, thoroughly depleted recently. Allowing for slight monthly decreases, according to the prospect, the year's total steel production will be 10 to 15 per cent above that of last year, which made a new high record by 7 per cent. The two-year gain is remarkable, as previously since the war the gain averaged only 2 to 3 per cent a year.

Tin plate production has been tapering off slightly, in a seasonal way. The year's production to date makes a new record for the period by a small margin, and this may be lost later in the year. The tomato pack will be much above that of last year, which was small, peas promise to run a little ahead and corn is doubtful. The early frost damage will make the California fruit pack between one-fourth and one-third below the normal expectancy. Tin plate exports were record high in the first five months of the year but have slipped somewhat of late.

Finished steel prices are steady all along the line, including wire products and black and galvanized sheets, which weakened recently. Sheet mills contemplate marking up their prices on black and galvanized sheets next month, to the asking prices put out last February which were lost recently. Billets and slabs are now established at \$35 per gross ton, Pittsburgh or Youngstown, or a dollar advance over the second quarter price, sheet bars being unchanged at \$35.

The scrap market is rather dull, mills showing little interest in the future. Prices are a shade easier in some lines.

## Pig Iron Production Curtailed

Birmingham, August 26—[Special.]—Numerous sales of pig iron for consumption in the home territory, the tonnage not being great in aggregate, steady shipment of iron to the North and East, the latter depending on ship room on Atlantic coast, with very little inquiry as to the market in the fourth quarter is the survey this week as to the iron market. Quotations are considered a little firmer as \$14.50, No. 2 foundry, is being asked in the home section and \$14 still reported in the competitive territories. Concessions on the latter price are not heard of so prominently now as previously. Compared to what had been done for the past few years, the shipment of pig iron to Atlantic coast territories, Pennsylvania points in particular, from this district has been very good. The lower freight rate, rail and steamship lines, is only a temporary rate and is to continue until March 1 next. Solicitation has

been active in the new territories to be reached and there has been some result. Another factor combatted was the prejudice against Southern irons.

Production of pig iron is being curtailed some and the program heretofore mentioned, closing down of from one to three blast furnaces is still proposed, the reduction of the immense surplus stock of pig iron not coming up to all expectations. One or two blast furnaces in this district are in need of relining and other plans including rebuilding along lines of greater production when resumption of operations start. There is hope that within six months a considerable proportion of the surplus stock of pig iron can be moved off. No intimation is yet given as to what the price base will be for the fourth quarter of the year and as far as can be ascertained very little inquiry is to hand for that period. In the home territory purchases of iron for some little time have been in small lots, against early requirements. The larger melters, the cast iron pressure and soil pipe makers have eased off production some, unfilled tonnage books showing reduction, new lettings not being as numerous nor tonnage as large as heretofore. Soil pipe accumulation is reported. Machine shops and foundries continue active as does stove and range manufacture but the requirements of these establishments are not heavy and the policy of buying as needs come up is being adhered to. The stove manufacturers indicate a strong market for their products and are producing actively.

The shutting down of the rail mill and six of the open hearth furnaces with one of the blast furnaces of the Ensley Works of the Tennessee Coal, Iron & Railroad Company has disturbed the activity of the steel mills operations here and estimate now is that the operations are down to about 70 per cent capacity. The wire and nail mills are producing meagerly and have large stocks on hand. Optimism is expressed for a few weeks hence in this line as the crop predictions are all favorable and the agricultural districts are the greatest consumers of wire and nails. Expectations are that in early fall demand will spring up actively from these sections.

Fabricating shops in the district continue busy though practically all of the contracts coming in are in small tonnages. The prospects in this line are reported bright.

With a pipe line completed and gas being turned on, running from the by-product coke works of the Woodward Iron Company to the new car works of the Pullman Car & Manufacturing Cor-



puration and the last of the machinery drawn out of the car works of the Tennessee Coal, Iron & Railroad Company at Fairfield and placed in the Bessemer plant, preparations for the formal opening of the big industry is coming nearer, W. J. Dickinson and N. B. Johnson, general superintendent and assistant of the Pullman Car & Manufacturing Corporation, who have been on the job for some time, now look forward to the starting up of the plant around September 16. Orders on hand include 600 box cars, all-steel cars, for the National Railways of Mexico and several hundred underframes for Southern railroads, while negotiations are under way for a larger number of box cars. When the works begin operation the indications are there will be steady operation for an indefinite period, the steel to be furnished by the Tennessee Coal, Iron & Railroad Co.

The coal industry still complains of sluggishness in demand. The coke market is fairly good with steady demand for foundry coke.

The iron and steel scrap market is slow except as to steels. Dealers have plenty of stock in every class and are delivering right along. Heavy melting steel is bringing \$13.50 for the best quality.

Quotations on pig iron and iron and steel scrap in the Birmingham district are as follows:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.00 to \$14.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$14.50 to \$15.00; iron of 2.75 to 3.25 per cent silicon, \$15.00 to \$15.50; iron of 3.25 to 3.75 per cent silicon, \$15.50 to \$16.00.

#### OLD MATERIAL.

Old steel axles .....	\$17.00 to	\$18.00
Old iron axles .....	17.00 to	18.00
Old steel rails .....	13.00 to	14.00
Heavy melting steel.....	10.50 to	13.50
No. 1 cast.....	13.00 to	14.00
Stove plate .....	12.50 to	13.00
No. 1 railroad wrought..	10.00 to	11.00
Old car wheels .....	11.00 to	12.00
Old tramcar wheels .....	12.00 to	13.00
Machine shop turnings ..	7.00 to	8.00
Cast-iron borings .....	7.00 to	8.00
Cast-iron borings (chem.)..	13.00 to	13.50

### Seasonal Lull in the Metals

New York, August 26—[Special.]—It is expected that the metal markets will be quiet until after Labor Day, but since that comes earlier than usual this year the fall demand may in turn start sooner. Prices have been holding firm for the most part and the metals have been fairly active for the second half of the chief vacation month of the year. Tin has been slipping backward a little because of lack of buying but the other major metals are holding firm and higher rather than lower prices are expected.

Copper sales for export have been better than domestic business, export sales so far this month being estimated at 50,000 tons. Price is unchanged at 18c, delivered to the Connecticut Valley, and 18.30c c. i. f. European ports, but prices

of standard copper futures on the National Metal Exchange have been creeping higher. Thus August copper sold at 17.95c per pound, or within 5 points of the outside market quotation.

Operations in the steel industry have been declining, a three per cent drop having been reported for the past week, though this is regarded as no more than seasonal influences, such as decline in the production of steel rails, tin plate and other specialty commodities of this nature. The automobile industry has slumped the most sharply as a buyer of raw materials, including the metals, ferrous and non-ferrous. Building operations hold up very well, despite many statistics indicating an opposite trend.

The public utilities are evidently the best consumers of copper, for the largest shipments of refined copper have been in the form of wire bars for manufacture into copper wire and cables. At the same time the demand from the brass founders has improved of late both because foundrymen are getting better orders for their finished products and because the supplies of secondary or scrap copper and brass are becoming exhausted. When refined copper reached 24c per pound last spring large quantities of scrap metal were unearthed from hidden quarters and made to substitute for virgin metal.

Some price changes have taken place in the minor metals. Antimony has become stronger and active because of the military operations in which China is again involved, since China is the principal source of antimony supplies. Present quotation on antimony is 87½c per pound, duty paid, an improvement by ¼c per pound in a week. Quicksilver was creeping higher in price, reaching \$125 per flask at the middle of the week. At this juncture, however, a large cargo arrived from Europe and the price dropped 50c to \$1 per flask. Silver prices are virtually unchanged. Platinum is steady at the recent price declines.

Sentiment in copper is still optimistic, though buying is not particularly brisk. Export sales have averaged 2,000 tons daily. Preponderance of demand is for prompt shipment, or late August and early September. Foreign users must now take September shipment as it is too late for shipments to arrive there in August. Only very small quantities of October metal have been bought.

Predictions have been heard over the past week that the price will remain at present levels the rest of the year, yet many consumers still believe the price is too high. Average price of copper over the past 30 years has been 16½c per pound, yet theoretically copper prices should be lower today because of much lower costs of production than formerly existed. Moreover many important rich

deposits have been discovered and developed in recent years. Copper is still high in price by comparison with several other basic commodities.

On the other hand the producers are better organized than ever before in their history through the Copper Institute and Copper Exporters, Inc. Production is apparently closely balanced with consumption. World production of crude copper over the first half of the year was 22½ per cent ahead of the same period of 1928. Though consumption cannot be gauged so completely and accurately, it is known that consumption in three of the major lines was 20 per cent in excess of the same period of last year.

The price of prompt Straits tin has sagged to 46½c per pound but future deliveries command a stiff premium, or as much as one cent a pound for delivery into late first quarter of next year. Speculators in tin are predicting no movements just now, the trends being so uncertain and they are advising clients to play for quick turns of the market. So far there are no evidences of curtailment of production, whereas copper curtailment has been much in evidence.

Lead demand became brisker as the week wore on, but was chiefly for prompt shipment. All classes of lead consumers have been in the market, particularly the makers of batteries and pigments. The market situation is strong in Europe and it is expected that fall demand will send up prices somewhat.

Zinc prices are holding remarkably firm considering the dullness of business and the making of concessions on the part of smaller producers and dealers. The price is 6.80c per pound, East St. Louis, for slab zinc and \$44 per ton for ore, a price which has existed since the end of March. The principal zinc buyer was a maker of galvanized sheets in Kentucky.

### Coal Production In Missouri Increases

Missouri is one of the few states which shows an increase in the production of coal in 1928, according to the United States Bureau of Mines. The total production last year was 3,732,421 net tons as compared with 3,064,343 tons in 1927, an increase of nearly 22 per cent. Barton County alone accounted for 234,231 tons of this increase. Other important gains are shown for Lafayette, Henry, Ray and Macon counties.

In comparison with 1927 the total value of the coal produced shows an increase of 10.8 per cent, the total value in 1928 being \$9,637,000 as against \$8,698,000 in the year preceding.

# HIGHWAYS AND MOTOR TRANSPORT

## LOUISIANA BUYS 2,888,000 BARRELS CEMENT

Large Order Involves \$6,500,000 at Big Saving—1000 Miles Roads to be Built.

New Orleans, La.—The Louisiana State Highway Commission, Baton Rouge, has contracted with the Lone Star Cement Company of Louisiana, New Orleans, for 2,888,000 barrels of cement to be delivered over a period of three years. This is a saving of approximately 10 cents per barrel, it is said, over the average market price for the same period, and as a result of the acceptance of the bid, the saving to the State will be \$288,000 over and above the \$577,600 saving which will accrue to the State from the 10-cent dealer's discount and 10-cent additional discount for cash in 10 days.

With the consummation of the contract of purchase, O. K. Allen, chairman of the Commission, announced that 1000 miles of roads are to be constructed in the State. According to Arthur C. Harrigan, treasurer of the Lone Star Cement Company of Louisiana, the price submitted for the cement was set by fixing a mill base price of \$1.75 per barrel, to which was added 40 cents for each barrel and the freight costs. This is said to mean an average total of \$2.25 per barrel delivered throughout the State, the lowest price at which cement has ever been bought in Louisiana, according to Mr. Allen. Under the contract the Commission is protected against any rise in cement prices and will receive the benefit of any further declines.

## Orders Ten 40-Passenger Buses

Norfolk, Va.—The Virginia Electric and Power Company, J. B. Hayes, general superintendent of transportation, has ordered ten new buses of 40-passenger capacity from the Twin Coach Corporation of Kent, Ohio. The buses, which will be built to Virginia Electric and Power Company's specifications, will be of the urban type, with two six-cylinder engines of Twin Coach special design. Seats will be upholstered in leather and floors will be covered with ¼-inch green and white rubber tiling. The order increases the company's fleet of Twin Coaches to twenty.

## Maryland Asks Road Bids

Bids will be opened September 3 by the State Roads Commission, Baltimore, for the construction of four road projects involving a total of 12.55 miles.

## Missouri Road Contracts

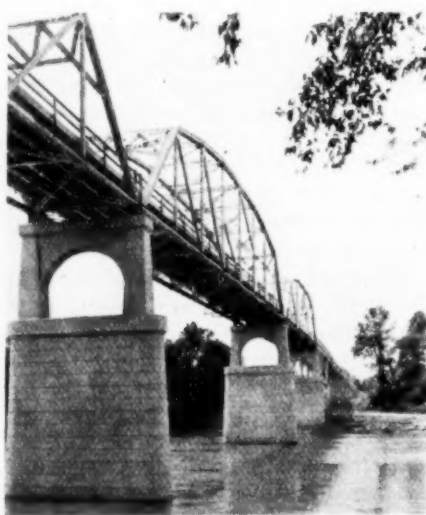
Jefferson City, Mo.—The Missouri State Highway Commission has awarded the following road contracts:

**Chariton County**—3.534 miles graded earth construction, E. W. Deering, contractor, St. Louis, Mo.  
**Holt County**—3.964 miles concrete, Davis Construction Co., Booneville, Mo.  
**New Madrid County**—0.601 mile concrete, Harry Tidd, Brookfield, Mo.  
**Pulaski County**—4.939 miles graded earth construction, Davis Construction Co.  
**St. Louis County**—(3 projects) 2.075 miles concrete, Joseph Kesi & Sons, Edwardsville, Ill.; 4.067 miles concrete, William Lough & Sons, Marion, Ill.; 2.245 miles concrete, same contractors.  
**Scott County**—(2 projects) 0.126 mile concrete, Harry Tidd; 0.141 mile concrete, same contractor.

## Bridge Completed Over Little Tennessee River

The Niles Ferry Bridge in Monroe County, Tennessee, on State Highway Project No. 8-A, was completed several months ago by the Southern Construction Co., general contractors, Birmingham, Ala. The bridge is 1200 feet long with a 20-foot roadway. The river section has reinforced concrete piers with three steel spans, the center span being 180 feet and the end spans 142 feet each. Approaches are reinforced concrete deck-girder type spans, of which there are 15 each 40 feet.

Following are the estimated quantities of materials: 10,000 cubic yards excavation; 3500 cubic yards of concrete; 308-



1200-Foot Bridge in Tennessee

156 pounds reinforcing steel; 526,000 pounds of structural steel and 9500 pounds of miscellaneous iron and steel.

Principal items were furnished as follows:

**Structural steel**—St. Louis Structural Steel Co., St. Louis  
**Cement**—National Cement Co., Birmingham  
**Reinforcing steel**—Dudley Bar Co., Birmingham.

## SUGGESTS SECONDARY HIGHWAY SYSTEM FOR VIRGINIA

Senator Layman Would Have State Supervise All Construction Financed By Gas Tax Proceeds

The creation of a supplemental state highway system, to be financed out of the proceeds of the 1½ cent gasoline tax now distributed to the counties, is suggested for Virginia by Senator George W. Layman. He urges adding to the state system 3000 miles of roads, all of which would at once come under state maintenance. For the development of primary and secondary roads on the state system, he would use the whole of the 5 cent gasoline tax, under state direction, without any distribution such as now exists. Senator Layman feels that the feeder roads in the rural sections of the state will never be what they should be until some such plan as that suggested is adopted.

At the present time, approximately \$2,500,000 annually in gasoline taxes is distributed by the state to the counties, and while this has been going on for a long period, the development of county roads has progressed quite slowly. It is pointed out that the counties, in many instances, do not have the necessary equipment for the building of roads and lack technical advice that is essential in properly carrying forward the work, thus making it practically impossible to build, develop and maintain a correlated system of adequate secondary roads. As a result, much of the money distributed to the counties for road building and maintenance is not effectively used. The plan suggested by Senator Layman points out that under the state highway department, roads can be built that will be far more enduring and at less cost than county built roads.

## Asks Paving Bids

Hazlehurst, Miss.—The Mayor and Board of Aldermen will open bids September 3 for paving and sewer construction, the former calling for approximately 33,000 square yards of paving, 13,188 cubic yards of grading and 14,170 feet of curb and gutter. Proposed sewers will require 1650 lineal feet of 12-inch pipe, 525 feet of 15-inch, 550 feet of 18-inch, 75 feet of 21-inch, 40 feet of 24-inch and 150 feet of 30-inch pipe. Engineering details are being handled by Culley-O'Brien Engineering, Inc., Jackson, Miss.



# AVIATION, AIRPORTS AND AIRWAYS

## Elevated Landing and Take-Off Fields for Airplanes

By CLARENCE M. YOUNG, Assistant Secretary of Commerce for Aviation, Washington, D. C.

The subject of elevated airports constructed over buildings in business and industrial districts has received considerable thought and discussion. As yet however, such projects must be considered as being in the experimental stage although it is quite likely that before many years they will reach a state of practical application, at least for certain types of aircraft. Extensive experimental work would seem advisable, particularly with launching and arresting gear, and with various safety devices, before construction of such an air terminal is actually undertaken.

Aside from the cost of such structures, which is bound to be quite high, there are a number of problems to be taken into consideration which have a very important bearing on the safety and reliability of operations. Unless the landing area is so arranged as to permit landings and take-offs in all directions, there is bound to be, at times, the problem of cross-wind operation. Other important problems include the matter of landings and take-offs immediately over congested districts, involving in many cases very turbulent air conditions caused by wind blowing around and over buildings, convection currents from heating and industrial plants, hot pavements, etc.; also, the hazards caused by fog and smoke and by the confusion of landing directly over a myriad of competing city lights some of which may be of very high brilliancy. The difficulties of conducting air transport operations on such elevated landing platforms in foggy weather cannot be emphasized too strongly. In considering these various problems it must be borne in mind that the success of air transportation depends to a great extent at least, upon the ability of the operating companies to maintain their schedules with a maximum degree of safety and reliability both day and night and through all kinds of weather.

## All-Metal Dirigible Makes Flight

The first flight of the all-metal lighter-than-air flying machine, ZMC-2, built in Detroit, Mich., for the United States Navy, has been successfully accomplished, according to dispatches from Detroit, where the test was made. With

Captain William C. Kepner at the controls, the dirigible is said to have carried its pilot and four passengers to an altitude of 1000 feet, remaining in the air 49 minutes. The airship is 150 feet in length, 50 feet in diameter and has a gas capacity of 200,000 cubic feet. It is propelled by two motors of 225 horsepower each and has cabin room for three passengers in addition to a crew of three. Further tests are to be made at Detroit before the airship is sent to Lakehurst, N. J., for delivery to the Navy.

## Concentrate on Biplane

Tulsa, Okla.—The Spartan Aircraft Company plans to concentrate on the production and sale of the Spartan C-3, 3-place open cockpit biplane, powered with the Wright "Whirlwind Five" 165-horsepower motor, according to L. V. Kerber, president. This model was recently granted approved type certificate No. 195 by the United States Department of Commerce. It will be offered later with the 225-horsepower Wright "Whirlwind" motor as an alternative power plant. The company's engineering staff is now working on drawings for a 2-place training plane and a 4-place cabin monoplane which will be offered in 1930.

## Cumberland Airport Dedicated

Cumberland, Md.—Cumberland's new airport about 7 miles from the city and two miles beyond Cresaptown, was formally dedicated on August 10 and 11 with an air circus. Henry Hart Post No. 1411, Veterans of Foreign Wars, sponsored the meeting in co-operation with Harold Ray Krimm, manager of the airport. Plans are being made by Mr. Krimm for a second air circus to be held here late in October.

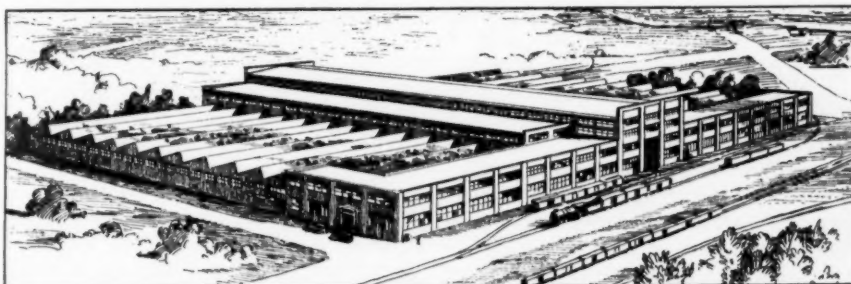
## Use of Airplane by Business Interests

From a survey of the rapidly increasing use of airplanes by business interests, the Ryan Aircraft Corp., St. Louis, concludes that approximately 135 large business corporations now own airplanes for the use of their salesmen and executives, for the transportation of parts and supplies and for other purposes. Almost every type of business is represented among the users of planes, the survey listing business and manufacturing organizations in 45 distinct classes.

The number of companies using airplanes for their salesmen seems to be rapidly increasing, 10 organizations indicating that planes are used almost exclusively for that service, while others state that planes are being used by their high-salaried executives for long distance trips, the transportation of parts and supplies, delivery of newspapers, transportation of merchandise, for aerial photography, surveys for power lines and other purposes. The six-place cabin plane was found to be the most popular type, the average operation cost of these planes being slightly more than 25 cents per mile. This figure is based on 500 hours operation per year and includes all expenses such as depreciation, pilot's salary and mileage bonus, insurance, hangar rent, overhauls, gas and oil and other items. Companies using a greater number of hours per year reported smaller operation costs.

## National Air Show in St. Louis

The Aeronautical Chamber of Commerce of America, Inc., New York, announces that the national 1930 aircraft show, which it is sponsoring, will be held in St. Louis next February.



## \$1,000,000 Baltimore Airplane Plant Under Way

Work is being rushed on the first unit of this \$1,000,000 plant being constructed at Dundalk, Baltimore, by the Curtiss-Caproni Corp., New York. The buildings are brick and steel with wood roofs. F. R. Harris, New York, is the architect and engineer, and Construction Management, Inc., New York, is the contractor.

## NEW AND IMPROVED EQUIPMENT

### Pavegard for Streets and Pavements

Pavegard, a steel armoring used to obtain a long-wear surface on roads and streets or other pavements subjected to heavy traffic, is a comparatively new product of the Blaw-Knox Company, Pittsburgh, Pa. The product is not to be confused with steel reinforcing used in the interior of concrete, its functions being to protect the road surface and make the pavement stronger by presenting a unified steel mat surface to traffic. It is made up of steel strips, which when placed together on edge, form a regular pattern of mesh of proper size to meet conditions imposed by traffic. In assembling it on a job tie-rods hold the strips together in a solid web or mesh, the strips being alternately staggered at joints to preserve the continuity of the mat.

The product is assembled direct on concrete, asphalt or other solid base, after which the topping or finishing surface is placed and rolled in the case of asphalt, or troweled or screeded in the case of concrete. It is claimed that Pavegard cannot be worn away by passing traffic, as the steel on edge takes the



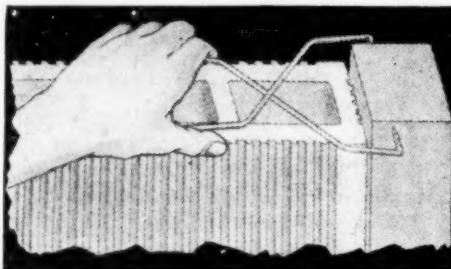
Assembling Pavegard on Job

entire wear, and when introduced into an asphalt surface it prevents the asphalt from rolling. Following an engineering study of the subject, the City of Chicago has installed a section of Pavegard 10 feet wide and 120 feet long at the bus stop on Michigan avenue and Randolph street where more than 67,000 vehicles pass in the course of a day. This installation has a 3-inch mesh, the bars being 1¼ inches deep. Assembly was made on a concrete base and a binder of tar and gravel added. The Pavegard was then asphalted in with topping and thoroughly rolled as is customary with this class of pavement. Another important installation has been made for the City of Philadelphia at 63rd and Chest-

nut streets, where traffic is extremely heavy, having increased in recent years because of the use of heavy buses.

### Buck Anchor on Market

The Bull Dog Floor Clip Co., Winterset, Iowa, is placing on the market a new buck anchor which is said to commend itself to architects and contractors, as it is claimed to be a labor saver and rigidly anchors a wood buck to a clay

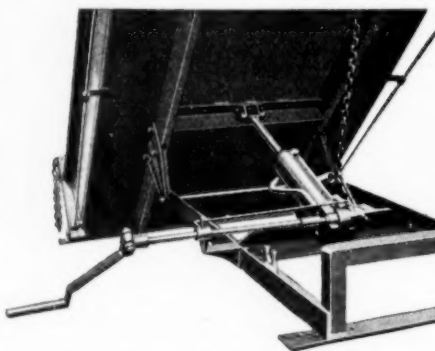


Placing the Bull Dog Buck Anchor

or gypsum tile partition. It eliminates the use of nails, bolts, strips of metal lath and strap iron, engaging the buck on the sides instead of at the back. Its sharp pointed barbed ends are easily driven into the wood, the back portion forming an immovable truss when embedded in the mortar joint. This anchor is manufactured in 3-inch, 4-inch and 6-inch sizes and packed in cartons of 250, including 21 shorts.

### Hydraulic Hand Hoist

The Wood Hydraulic Hoist & Body Co., Detroit, Mich., announces its Model A hydraulic hand hoist, utilizing the hydraulic principle, with a rotary gear



Simple in Operation

type oil pressure pump. Power is applied to the pump by a hand crank, the action of the pump being described as simple, positive and powerful. A feature of the hoist is its quick, smooth action. The load is raised and supported on a solid cushion of oil and when the crank is stopped the body remains sta-

tionary in elevated position without the use of dogs, catches, ratchets, brakes or other mechanism; it will not run down under load. To lower the body, place the control valve at "down" position and it descends quietly, automatically and without shock to the chassis. The new unit weighs between 850 and 900 pounds complete and comes in 1 and 1½ cubic-yard capacities.

### Model 7 Northwest Shovel

The Northwest Engineering Company, Chicago, has recently put on the market its model 7 power shovel designed especially to meet the needs of drainage, sewer and irrigation contractors. This model is equipped, unless otherwise specified, with a 50-foot boom and 1¾-cubic yard dragline bucket and is mounted on a stable base 11.5 feet wide, with crawlers, having an overall length of 16 feet 4 inches. Positive traction is a patented feature, assuring mobility and taking



For Drainage and Sewer Work

the machine "over the most difficult going almost without effort." The Northwest variable speed motor, accelerator controlled, is standard on this shovel, the engine permitting rapid acceleration at the touch of the lever. Other features include the revolving fairlead, the "feather-touch" control, helical gear drive and ball bearings on all high speed shafts. The machine is convertible to a standard crane by changing buckets, or to a trench pull-shovel by changing booms, and may be shipped on one flat car without dismantling, except the removal of the boom.

### Heads New Cotton Arbitration Board

E. G. Parker of the Bureau of Agricultural Economics, United States Department of Agriculture, has resigned to become chairman of the Cotton States Arbitration Board of Atlanta, Ga. This organization for many years was located at New Orleans but with the recent reorganization Atlanta has been made the headquarters.



# CONSTRUCTION DEPARTMENT

## and

# NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

### Airports, Airplane Plants, Etc.

Ark., Little Rock—City, Pat Robinson, Mayor, voted \$200,000 bonds for purchasing site, constructing and equipping airport. 8-1

Fla., Flagler Beach—City establish airport.

Fla., Miami—Viking Flying Boat Co., New Haven, Conn., let contract to Sandquist & Snow, Box 902, for engineering and constructing hangar and runway at municipal seaplane base on Venetian causeway.

Fla., St. Petersburg—City soon call for bids for 2 hangars, Albert Whitted Airport, one for airplanes and other for baby zeppelin of Goodyear Zeppelin Co., Akron, Ohio, 2 structures costing approx. \$55,000; plans by E. H. Lewis, Director of Public Works; A. F. Thomasson, F. R. Francke, members Airport Committee.

Ga., Atlanta—Pitcairn Aviation, Inc., care John K. Otley, Jr., Fourth Natl. Bk. Bldg., general office Sperry Bldg., Manhattan Bridge Plaza, Brooklyn, N. Y., opens bids Sept. 10 for constructing hangars at Candler Field, conc. foundations, conc. floors; bids on struc. steel and covering on Sept. 3; following estimating on general contract; Griffin Construction Co., 451 Spring Rd.; Norwood Griffin Co., Bona Allen Bldg.; Flagler Co., Red Rock Bldg.; J. S. McCauley Co., Bona Allen Bldg.; C. R. Justi, 101 Nitta St., N. W., all Atlanta. 8-8

La., Natchitoches—City voted \$35,000 bonds for airport. 6-27

La., Baton Rouge—East Baton Rouge Parish voted  $\frac{3}{4}$  mill property tax over period of 5 years for \$150,000 airport. 6-20

Miss., Hattiesburg—City Comm. let following contracts for airport: all-steel hangar, Mobile Steel Co., Inc., Mobile, Ala., at \$10,021, 100 x 80 ft.; conc. floors, runways 80 ft. wide extending 20 ft. from either door; lighting equipment, Central Electric Co., Hattiesburg, at \$8,575.85; grubbing, W. M. Thompson, Hattiesburg, at \$31 per acre. 8-15

Mo., Granite City—Universal Aviation Corp., 300 N. Broadway, St. Louis, Mo., acquired 630 acres, Horseshoe Lake Dist., east of here for airport.

Mo., Kansas City—Superior Aircraft Corp., capital \$100,000, incorporated; Leo Mohme, Senate Hotel.

Mo., St. Louis—Gonzales-Gram Aviation Corp., incorporated; L. Gonzales, 2903 Shenandoah St., St. Louis; manufacture, design, operate and deal in airplanes, machines, automobiles, etc.

Okl., Muskogee—City let contract to Ellis & Lewis, Surety Bldg., for drainage facilities at municipal airport, costing \$15,089; steel for large hangar purchased. 8-1

S. C., Anderson—City plans \$50,000 bond issue for airport.

Tex., Dallas—Curtiss Flying Service, 39 Broadway, New York, establish flying school, Dalworth, 10 mi. west of here, to be in operation in 60 days, under direction of William F. Long, Dallas; Stone & Webster Engineering Corp., 49 Federal St., Boston, Mass., erect conc. and brick hangar and administration building, both costing \$100,000; begin construction in few days.

Tex., Fort Worth—City Council authorized purchase of 15  $\frac{1}{3}$  acres adjoining municipal airport.

Tex., Fort Worth—U. S. Dept. of Commerce, C. C. Miller, Airways Engr., immediately establish 2 landing fields between here and Waco; also establish 9 beacon lights, 2,000,000 candlepower each, on route to Waco.

Tex., San Antonio—Joe Ben Lievre Aircraft, Inc., capital \$125,000, chartered; Joe Ben Lievre, 1622 W. Woodlawn Ave.

Va., Lynchburg—City plans calling bids for completing grading necessary for city airport, 10 mi. south of here, Ward Rd.; 2 runways 250 ft. wide to be graded now and later widened to standard widths. 5-23

### Bridges, Culverts and Viaducts

#### Proposed Construction

Ark., Cotter—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, received low bid from H. H. Caruthers, 1012 Lowell St., Kansas City, Mo., \$306,773, for bridge over White River at Cotter, Baxter County. 7-25

Ky., Ashland—See Roads, Streets, Paving.

Ky., Blackey—War Dept., Washington, D. C., approved plans State Highway Comm., Frankfort, for bridge across north fork of Kentucky River, Blackey, Letcher County.

Ky., Louisville—City, Jos. S. Lawton, Chmn., Bd. of Public Works, tentative plans for expending \$10,000,000 during next 5 years to eliminate railroad crossings.

Ky., Louisville—Bd. of Public Works approved plans of W. M. Caye, Sewerage Comm. Engr., for 40-ft. wide conc. bridge across Beargrass Creek at Rufer Ave. between eastern section and downtown business section of city; Sewerage Comm. to construct foundation; cost about \$10,000.

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Sept. 3 for 3 bridges, culverts, etc.: Jefferson and Orleans Parishes—crossed pile trestles, Route 33, Frenier to West End; Ascension and St. James Parishes—conc. culverts, conc. pipes and combination trestles, Sorrento to Grammercy, 172-025 lb. rein. steel, 304,400 lb. fabricated struct. steel; St. Charles Parish—combination trestles, Norco to Kenner, 93,465 lb. rein. steel, 229,616 lb. fabricated struct. steel; W. H. Norckauer, State Highway Engr.

Maryland—State Roads Comm. received low bids for 2 bridges. See Roads, Streets, Paving.

Md., Elkton—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids Sept. 5 for single span, rein. conc. arch bridge over Big Elk Creek, Cecil County, on road from Fair Hill to Appleton, necessary fill, surfacing, etc.; 70-ft. span, 24-ft. clear roadway; Cont. CE-78; L. H. Stewart, Svc.

Miss., Batesville—Panola County Bd. of Supvrs., J. A. Carter, Clk., receives bids Sept. 9 to re-construct trestle approaches to main steel bridge across Tallahatchie River, Batesville-Marks Highway.

Miss., Columbus—Lowndes County receives bids for 2 bridges and culvert. See Roads, Streets, Paving.

Miss., Corinth—Alcorn County Bd. of Supvrs., W. L. Madden, Clk., receives bids Sept. 2 for steel bridge across Can Creek canal, on Smith Bridge road.

Missouri—State Highway Comm., plans 4

bridges and overpass. See Roads, Streets, Paving.

Mo., Excelsior Springs—City receives bids for 2 bridges. See Roads, Streets, Paving.

Oklahoma—State Highway Comm., L. H. Wentz, Chmn., Oklahoma City, received low bids for 14 bridges, superstructure, and overhead crossings: Caddo County—8 bridges, U. S. Highway No. 66, Bridgeport to Weatherford, Crichton & Kirby, Ardmore, \$119,095; Grady County—overhead crossings, over Rock Island tracks, U. S. Highway No. 81, near Minco, L. S. Fischer, Woodward, \$36,383; Carter County—bridge across Boggy Creek on U. S. Highway, north of Ardmore, Taylor & Majors, Ardmore, \$59,594; Atoka County—superstructure near Springfield, U. S. Highway No. 71, E. S. Alderman, 1605 W. 39th St., Okla. City, \$17,790; Rogers County—bridge on U. S. Highway, north of Chelsea, E. S. Alderman, \$6,174; Comanche County—on U. S. Highway No. 7, west of Elgin, Taylor & Majors, \$35,389; Cotton County—over Cache Creek, between Walters and Emerson, Crichton & Kirby, \$33,047; John F. Rightmore, Acting State Highway Engr. 8-1

Tex., Big Spring—City, Howard County, H. R. Debenport, Judge, and Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, considering overpass on Benton St.

Tex., Houston—City, W. E. Montelth, Mayor, received low bid from Sexton Corp., Post Dispatch Bldg., \$45,490, for conc. bridge across White Oak Bayou at Yale St.; H. L. Shaw, City Engr. 8-15

Tex., Houston—War Dept., Washington, D. C., reported, approved plans Galveston, Harrisburg and San Antonio Ry. Co., R. W. Barnes, Ch. Engr., 302 W. Pierce St., Houston, for bridge across Buffalo Bayou, Port Houston, cost \$150,000.

Tex., Wichita Falls—City, George D. Fairtrace, Mgr., plans receiving bids for approach to Scott Ave. Bridge over Wichita River.

W. Va., Charleston. See Roads, Streets, Paving.

W. Va., Charleston—Kanawha County plans 3 bridges. See Roads, Streets, Paving.

W. Va., Wheeling—Ohio County Commrs. preparing plans and making surveys for bridge at north end of Boone and Hodge road at intersection with north fork of Short Creek.

#### Contracts Awarded

Ark., Fayetteville—Washington County, J. Lona Slaughter, County Judge, let contract to Blackshare & Blackshare, Harrison, \$10,500 for conc. span over West Fork, White River, southeast of Fayetteville. 7-18

Mo., St. Louis—McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., has contract for 5,800 tons steel for east approach to St. Louis free bridge.

Oklahoma—State Highway Comm., L. H. Wentz, Chmn., Oklahoma City, let contracts for bridges in 2 counties: Major County—bridge on State Highway No. 7, Taylor & Majors, \$59,594; Caddo County—on U. S. Highway No. 66, west of Bridgeport, Whitson & Kirby, Ardmore, \$104,337.

Tenn., Nashville—Davidson Purchasing Comm., Ernest Parker, Sec., let contract to

E. A. Woods & Co., Nashville, \$5056, for bridge over Brown's Creek, Nolensville road.

Tex., Corpus Christi—See Roads, Streets, Paving.

Tex., Waco—City, E. E. McAdams, Mgr., let contract to Hannah Construction Co., P. O. Box 994, \$17,397, for rein. conc. bridges over small creeks, 66,140 lb. rein. steel; J. H. Strange, City Engr.

### Canning and Packing Plants

Fla., Avon Park—Hills Bros. Co., 110 Washington St., New York, reported acquired and will improve and operate Avon Park Cannery.

Fla., Clearwater—Dilpako Packing & Canning Co., J. H. Myler, 192 Lakewood Ave., Detroit, Mich.; erect citrus canning plant on East and Franklin Sts.

Fla., Tarpon Springs—Tugwell & Wiseman, Inc., construct grapefruit and juice canning plant.

S. C., Bennettsville—R. L. Kirkwood construct canning plant.

Tenn., Selmer—Bethel Springs Canning Co., reported, rebuild burned canning plant; cost \$10,000.

### Clayworking Plants

Tex., Irving—R. D. Harry, Dallas, Pres. of company incorporated with \$80,000 capital, to construct brick manufacturing plant on 60-acre site here; daily output 20,000 face brick.

### Coal Mines and Coke Ovens

Ky., Elsiecoal—Atlantic States Coal Corp., John H. Jones, 1916 Point Breeze Ave., Pittsburgh, Pa., reported, acquired Consolidated Fuel Co., at Elsiecoal and Blackey, Letcher County.

### Concrete and Cement Plants

Okla., Tulsa—Builders Concrete Co., capital \$75,000, incorporated; J. T. Lynch, 1712 South Quincy St.; J. M. Chandler.

### Cotton Compresses and Gins

La., New Orleans—Atkinson & Co., 823 Perdido St., construct \$250,000 cotton compress and warehouse in Southport; Otis W. Sharp, Contr., 144 Carondelet St.

Miss., Scott—Delta & Pine Land Co., construct \$30,000 5-stand cotton gin; F. C. Owens, Contr., Greenville.

Okla., Dill — Farmers Union Co-Operative Gin, capital \$25,000, incorporated; Lloyd Armstrong, J. F. Crabb.

Okla., Geary—Farmers Union Co-Operative Gin, capital \$25,000, incorporated; S. G. Dennis, Paul C. Young.

Okla., Mountain Park—Farmers Union Co-Operative Gin construct 22x84 ft. gin, with seed and storage house, 22x48 ft.

Tenn., Troy—J. H. Robbins, Dyersburg, leased and will improve cotton gin of National Cotton Seed Products Corp.

Tex., Eola—J. C. Freeman Gin Co., capital \$15,000, incorporated; J. C. Freeman, R. A. Hall.

Tex., Fabens — El Paso Valley Compress Co., capital \$100,000, incorporated; A. R. Miller, George W. Orral.

Tex., Lake Dallas—Norman Bayliss, Mgr., Birk-George Gin, Iowa Park, acquired and will operate gin.

Tex., Longview — Shippers Compress & Warehouse Co., Park Row, Dallas, installing high density attachment; installation by Reading Iron Works, Reading, Pa., under supervision of W. N. Wallace, Contr.

Tex., Wallsville—F. W. Treadway, Beaumont, reported, erect \$12,000 cotton gin in Stowell-Winnie section, Chambers County.

Tex., Wheeler—Farmers Gin Co., capital \$42,000, incorporated; J. C. Moore, A. J. Baker.

### Cottonseed-Oil Mills

Tenn., Memphis—Buckeye Cotton Oil Co., Gwynne Bldg., Cincinnati, O., subsidiary of Proctor & Gamble Co., reported, acquired Dixie Cotton Oil Mill at Memphis, and Louisville Cotton Oil Co.'s plant at Louisville, Ky.

### Drainage, Dredging and Irrigation

Fla., Miami Beach—J. Julien Southerland, First Natl. K. Bldg., Miami, representing group Detroit capitalists, let contract to Clark Dredging Co., 357 S. W. N. River Dr., for dredging approx. 1,250,000 cu. yd., at 12.6 cents per cu. yd. for sand, 57 cents for rock; completion within 3 months; no other contracts let in connection with colonization

project and will not be let for 60 days. (See Miscellaneous Construction, 8-8.)

Fla., New Smyrna—Freeholders of Fifth Commrs. Dist. ratified special act of legislature creating New Smyrna Inlet Dist.; voted \$250,000 bonds for building jetty along north side of inlet, extending approx. 4000 ft. through inlet and on through deep water giving permanent average of 10 to 12 ft. depth at mean low tide. 7-18

Georgia—Arthur Lucas, Charles S. Arnaw, Agt., Route 2, Kingsland, Ga., applied to U. S. Engr. Office for War Dept. permit to dredge passage through marsh from St. Marys River to adjacent highland.

Louisiana—Highway Comm., Baton Rouge, opens bids Sept. 17 for 1200 ft. drainage flume, Natchitoches Parish, near Natchitoches-Boyce Hwy., 2½ mi. north of Galbraith.

Louisiana—U. S. Engr. Office, ft. of Prytania St., New Orleans, plans dredging channel in Little Caillou Bayou, from its head about 20 mi. to Robinson Canal, costing about \$85,000.

La., New Orleans—Bd. of State Engrs., New Orleans Court Bldg., opens bids Sept. 15 for Bayou Roundway Diversion canal, approx. 360,000 cu. yd.

Mo., Canton—See Miscellaneous Construction.

Tex., Roma—Starr County Water Control & Improvement Dist. No. 1, Lino Perez, Pres., has surveys practically completed and will have plans complete within about 30 or 60 days for irrigating approx. 25,000 acres, consisting of large river pumping plant with several small second lift plants, about 30 mi. of main canal, portion conc. lined; necessary lateral canals, several conc. syphons on main canal and flume work; Myers, Noyes & Forrest, Engrs., Mercantile Bk. Bldg., Dallas. 8-22

### Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Alabama—Alabama Public Service Comsn., Montgomery, has under advisement petition of Interstate Utilities Corp., to establish electric distribution system in Fruitland, Yellow Pine, Escatawpa and Chatham, by running transmission lines from its plant at State Line, Miss.

Ark., Hot Springs — Arkansas Power & Light Co., Pine Bluff, reported, let contract to Virginia Bridge & Iron Co., Roanoke, Va., for 325 tons struc. steel, intake gates, etc., in connection with hydro electric project on Ouachita River.

Ark., Morrillton—City, Edward Gordon, Dr. D. T. Black, Committee, plans power plant.

Fla., Winter Garden—Florida Public Service Co., Orlando, erect transformer sub-station on Plant St.; cost \$50,000.

Kentucky—Byllesby Engineering and Management Corp., S. LaSalle St., Chicago, Ill., reported, acquired 9 power, light and water properties in Kentucky and West Virginia, including Eastern Kentucky Utilities Co., Pikesville; Prestonburg Gas Co., Paintsville Gas and Water Co., Salyersville Gas, Electric & Ice Co., West Liberty Electric & Gas Co., Louisa Light & Power Co., Stryat Ice & Cold Storage Co. and Kenova Ice Co., Kenova, W. Va.; properties will probably be under control of Standard Gas & Electric Co., subsidiary.

Miss., Greenville — Mississippi Power & Light Co., Jackson, reported, rebuild electric distribution system; cost \$25,000.

Miss., Washington—Southwestern Gas & Electric Co., Marshall St., Shreveport, La., extend electric line, supply Jefferson Military College and suburban residences along highway, Natchez and here.

N. C., Charlotte—City, install additional street lights.

N. C., Sanford—City, W. R. Williams, Mayor, considering feasibility of constructing and operating power plant.

N. C., Wilson — Rock-Ridge Power and Light Co., capital \$15,000, incorporated; C. C. Barnes, Rock-Ridge; Dr. V. M. Barnes, Wilson.

Okla., Oklahoma City—Oklahoma Gas & Electric Co., J. F. Owens, V. P.-Gen. Mgr., plans 30,000 kw. steam electric generating station at Belle Isle Lake; begin work immediately; equipment consists of 30,000 kw. turbine; build substation from which 66,000 volt line will run to El Reno and Enid;

also connected to main power plant and transmission line system, including generating stations at Horseshoe Lake near Harrah, Riverbank near Muskogee, Byng plant near Ada; work under supervision of Byllesby Engineering & Management Corp., Chicago, Ill.

Texas—Central Power & Light Co., Frost Natl. Bk. Bldg., San Antonio, having survey made and right of way cleared for 66,000-volt trunk transmission line; extend 104 miles northward from Uvalde through Camp Wood and Rocksprings to north line of Edwards County, where it will interconnect with line now under construction out of Sonora by West Texas Utilities Co., Abilene; erect substations at Camp Wood and Rocksprings, enlarge substation at Uvalde; materials ordered; L. E. Myers Co., American Exchange Bank Bldg., Dallas, Contr.

Tex., Brady—City, reported, acquired distribution system, in W. D. Crothers Addition, owned by West Texas Utilities Co., Abilene.

Tex., San Angelo—W. E. Callahan Construction Co., Kirby Bldg., Dallas, contractor for Nasworthy Dam on Concho River, for West Texas Utilities Co., Abilene, reported, let contract to Virginia Bridge & Iron Co., Roanoke, Va., for 250 tons, struc. steel, 15 tainter gates. 7-18

Va., Blackstone—Town installing 360 h.p. Fairbanks, Morse & Co.'s Diesel engine in power plant.

Va., Radford—City voted against sale of electric plant to Republic Service Corp. 7-25

W. Va., Elkins—City votes Nov. 5 on \$135,000 electric light bonds. 3-21

### Fertilizer Plants

Va., Alexandria—American Manganese Fertilizer Corp., capital \$550,000, incorporated; Albert S. Dulin, 1422 F St., N. W., Washington, D. C.; develop mines and manufacture fertilizer.

Va., Danville—Smith-Douglas Co., Bd. of Trade Bldg., Norfolk, construct fertilizer plant on 10-acre tract outside city limits on Bradley Rd.; cost \$50,000.

### Flour, Feed and Meal Mills

Ga., Dawson—M. C. and Davenport Edwards acquired Shields-Geise Lumber Co.'s plant; manufacture stock feed.

Mo., St. Joseph—Famo Feed Milling Co., 429 Cherokee St., increased capital \$70,000 to \$100,000.

### Foundry and Machine Plants

Ala., Birmingham—Lake Erie Bolt & Nut Co., 915 E. 63rd St., Cleveland, Ohio, plans extensive improvement, modernization of facilities and other developments at recently acquired plant of American Bolt Co., East Birmingham; F. H. Mohns in charge.

Ala., North Birmingham (Sta. Birmingham)—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 180 tons struc. steel for bolt, nut and rivet plant of Lamson & Sessions Bolt Co., 1971 W. 58th St., Cleveland, Ohio; Johnson Construction Co., Gen. Contr., Martin Bldg.; Geo. S. Rider, Engr., Century Bldg., Cleveland, Ohio. 8-22

Okla., Garber — Garber Tool Co., capital \$250,000, recently organized to acquire Garber Tool & Supply Co.; operate machine shop and business of acquired company; George E. Failing, remains president; Bd. of Directors include B. A. Garber and C. J. Taft.

Mo., Kansas City—Kansas City Car Co., M. R. Groenwald, V.-Pres. and Gen. Mgr., subsidiary of American Steel Car Co., 208 S. LaSalle St., Chicago, started constructing plant, North Kansas City, for repairing tank cars which company leases to oil companies; consists of office warehouse and long sheds over switch tracks.

Mo., North Kansas City—Kansas City Car Co., 10th Ave. and Cherry St., acquired Deckard Steel & Iron Co.; plant to be enlarged by addition of several buildings.

Mo., St. Louis—Black Servant Mfg. Co., Wm. F. Brinkman, Sr., Pres., 2951 N. Market St., erect \$25,000 addition in 3 months to recently acquired plant; 100x185 ft., brick, conc. floors, gravel roof; install equipment costing \$15,000, including straight drills, shaper lathes, Fostick radial drill, 3-B Brown & Sharpe milling machine, 24-in. Smith-Mills Shaper, Weigel upright drill, 2 champion upright drills. See Want Section—Machinery and Supplies. 8-22

Tenn., Knoxville — Mead Warren erecting machine shop, Park St.

Tex., Houston—Houston Armature Works, A. C. Kater, Pres., 4 Preston Ave., acquired site, Prairie Ave. and Broadway, for \$40,000 plant; 1-story, brick.



Va., Pulaski—Virginia Armature & Electric Corp., capital \$50,000, incorporated; C. E. Richardson.

W. Va., Parkersburg—James F. Alexander, 1018 16th St., acquired control of majority interest in Crotty & Co., Second St. (Mfrs. Oil Well Tools, Dealers in Oil Well Supplies); Crotty & Co., capital \$200,000, being organized; James F. Alexander, Henry L. Crotty.

### Gas and Oil Enterprises

Ga., Savannah—American Oil Co., Raymond Demere, Pres., Louisville Rd., offering issue of 7% preferred and voting non-par common stock; proceeds to be used for developments.

Ky., Ashland—Ashland Refining Co., increased capital \$650,000 to \$1,000,000.

Ky., Bowling Green—Lay-Nichols Oil & Gas Co., capital \$20,000, incorporated; S. T. Lay, W. A. Lewis.

Ky., Prestonsburg—Cracker Oil & Gas Co., capital \$50,000, incorporated; R. C. Francis, Henry Stephens.

Ky., Prestonsburg—Gas Producing Co., incorporated; H. M. Perdue, W. J. Maler.

La., Alto—Palmer Corp. of Louisiana, subsidiary of Louisiana Gas & Fuel Co., 1100 City Bank Bldg., Shreveport, constructing additional gasoline extraction plant; handle 50,000,000 cu. ft. gas daily; cost \$100,000; Stearns Rogers Mfg. Co., Denver, Colo., Contrs.

Mississippi—Louisiana Oil Corp., subsidiary of Louisiana Oil Refining Corp., Shreveport, La., reported, acquired properties of Panhandle Oil Co., Panhandle Bldg., Wichita Falls, Tex.; operating in 58 communities in Mississippi through 19 bulk stations and 98 filling stations.

Miss., McComb—Thomas Rice, Laurel, reported, representing F. R. Weller, Inc., Mills Bldg., Washington, D. C., negotiating for gas plant and distributing system franchise; erect plant, daily capacity 1,000,000 cu. ft.; M. Hainer, Local Chm. Committee.

N. C., Greensboro—Southland Oil Co., capital \$100,000, incorporated; T. R. Wall, 205 Elm St., High Point.

N. C., Hickory—Old Hickory Oil Co., capital \$100,000, incorporated; R. B. Gant, Thomasville Rd., High Point.

N. C., Statesville—Iredell Oil Co., capital \$100,000, incorporated; R. B. Gant, Thomasville Rd., High Point.

Oklahoma—Mid-Continent Petroleum Corp., Cosden Bldg., Tulsa, reported, to merge with Wentz Oil Co., Ponca City.

Okl., Oklahoma City—Cities Service Gas Co., 60 Wall St., New York, subsidiary of Empire Oil and Refining Co., reported, construct pipe line from here to Wichita, Kan.

Okl., Tulsa—Lena Oil Co. incorporated; John S. Robinson, Atlas Life Bldg.

Texas—Cranfill-Reynolds, Inc., 1013 Commerce St., Dallas, organized Mid-Tex Refining Co. as subsidiary; company also owns Central Texas Refining Co., owning and operating refineries at Minerva, Brownwood, Angus and Luling; have under consideration extensive improvements at Angus; plan installing cracking stills. 8-8

Tex., Amarillo—Dixon Petroleum Corp. incorporated; John W. McGee, Amarillo Bldg.

Tex., Amarillo—S. C. Henderson Gasoline Co., applied to State Railroad Com'n., Austin, for permission to burn 10,000,000 ft. residue gas daily from gasoline plant in Sanford district; carbon plant contemplated.

Tex., Bellville—Humble Oil & Refining Co., Humble Bldg., Houston, reported, construct condensary at Raccoon Bend oil field near here; steel and iron.

Tex., Dallas—White Eagle Oil and Refinery Co., L. L. Marcell, Pres., Federal Reserve Bk. Bldg., Kansas City, Mo., reported, contemplates merger with Magnolia Petroleum Co., Magnolia Bldg., Dallas.

Tex., Dallas—Simms Oil Co., Magnolia Bldg., reported, expend \$280,000 in improvements to refinery in West Dallas; install gasoline extraction plant; bubble towers, heat exchangers, etc.

Tex., Dallas—Champion Winkler Oil Corp. increased capital, \$300,000 to \$450,000.

Tex., Fort Stockton—City granted natural gas franchise to Dr. J. A. Webb and D. S. Beeman, surveys completed; immediate construction.

Tex., Ingleside—Humble Oil & Refining Co., Humble Bldg., Houston, reported, construct electric generating plant to supply refinery, also additional cracking unit.

Tex., Fort Worth—Zenith Oil Producing

Co., capital \$60,000, incorporated; Will P. Anderson, 2128 Park Place.

Tex., Laredo—Kepley Production Co., capital \$100,000, incorporated; James K. Kepley, D. M. Leopold.

Tex., Muldoon—Muldoon Oil & Gas Co., capital \$200,000, incorporated; T. W. and J. E. Smith.

Tex., Ranger—Bryan Oil and Gas Corp., incorporated; B. G. Bryan, H. Hammett.

Va., Clarendon—Sun Oil Co., 1608 Walnut St., Philadelphia, Pa., reported, considering erection of \$50,000 storage tanks and administration buildings.

### Ice and Cold-Storage Plants

Fla., Sarasota—Sarasota Terminal Docks, Inc., T. W. Bryden, Coldenrod Ave., start erecting \$500,000 precooling and cold-storage plant within 30 days. 8-15

Ga., Guyton—Coastal Service Co. plans establishing ice plant in connection with light and water plant; possibly acquire Guyton Ice Co.'s plant.

Md., Baltimore—Following have sub-contracts for \$175,000 cold-storage warehouse, 416-30 S. Eutaw St., for Consolidated Gas Electric Light & Power Co.: 600 tons rein. steel, McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa.; blanket cork contract, Armstrong Cork Co., 21 S. Charles St. (See Building News Columns—Contracts Awarded—Warehouses. 8-22)

Tex., Dallas—Prairie Icing Co., capital \$40,000, incorporated; C. S. Dawley, Sante Fe Bldg.

Tex., Marble Falls—Carol Gray, Brady, soon erect cold storage plant and market.

Tex., Paris—City votes Sept. 24 on erecting municipal ice plant.

Tex., Temple—D. C. Herndon let contract to Bob Love for cold-storage plant, S. Second St.; 70x125 ft., conc., hollow tile.

Va., Clarksville—Virginia-Carolina Ice Co., Inc., capital \$25,000, chartered; F. A. Furton.

### Iron and Steel Plants

Tex., Beaumont—Beaumont Iron Works, 1450 Crockett St., plans expending \$50,000 to \$70,000 for improvements to plant.

### Land Development

Ala., Florence—H. J. Winfield, 225 W. 34th St., New York, reported, acquired 500 acres with 2-mile water front; develop subdivision.

Fla., Belle Glade—Belle Glade Realty Corp., capital \$25,000, incorporated; C. E. Riedel, W. M. Clifton.

Fla., Bradenton—Whitfield Citrus Products Corp. incorporated; H. C. Hand, H. B. Davis.

Fla., Daytona Beach—Oliva Corp. incorporated; B. F. Brass, 918 Wild Olive S. B.

Fla., Daytona Beach—Bennett Seabreeze Holding Corp., chartered; G. R. Bennett, 315 N. Atlantic Ave.

Fla., Eustis—E. J. Wirfs, reported, acquired 40 acres East and West Crooked Lakes; develop subdivision.

Fla., Homestead—F. T. Field, Fort Lauderdale, and associates, develop subdivision.

Fla., Inverness—Southern Mine & Development Co., Adam Noble, Mgr., plans improving golf course at Southern Pines, winter colony suburb.

Fla., Jacksonville—City acquired and will develop 450 acres for park.

Fla., Jacksonville—Penn Holding Co., incorporated; Edward Heimbarger, 1339 W. 11th St.

Fla., Jacksonville—Florolima Camp, Inc., chartered; F. E. Wood, 3311 Avondale Ave.

Fla., Jacksonville—National Lead Co., 111 Broadway, N. Y., developing real estate under management of Titanium Pigment Co., at Jacksonville Beach; work includes golf course, club house and beautification of 17-mile ocean frontage extending from Jacksonville Beach nearly to St. Augustine; J. C. Stehlin, in charge. 8-15

Fla., Lakeland—Skyuka Holding Co. incorporated; T. W. Bryant, 106½ S. Kentucky Ave.

Fla., St. Petersburg—H. C. Bumpous, Inc., chartered; H. C. Bumpous, 451 Ant Ave.

Fla., West Palm Beach—William J. Maloney, Inc., chartered; W. J. Maloney, 240 11th St.

Ky., Louisville—Patent Holding & Developing Co., incorporated; M. J. Dant, 1932 Alfresco Place.

Ky., Louisville—Denhard Realty Co., capital \$15,000, incorporated; George E. Parrott, 324 Shawnee Drive.

Ky., Owensboro—City, J. R. Beck, Mayor, develop 35 acres for park; laying out drive-ways, landscape gardening, swimming pool, playground apparatus, possible later construction of auditorium, etc.; C. A. Brown, City Engr., will supervise work. 8-22

La., Lafayette—Angeloz Realty Co., capital \$100,000, incorporated; A. A. Angeloz, H. Olivier, both Lake Charles.

La., Oakdale—Paradise Colonization Co., Inc., Shreveport, clearing 1920 acres cut over pine land; develop orange grove and subdivision.

Md., Baltimore—Garland Development Co., Inc., 6 E. Mulberry St., incorporated; Bradford T. Bechtol.

Md., Baltimore—Parkhill Realty Co., Inc., 2107 N. Charles St., chartered; Harry E. Parkhurst, Gunther Bldg.

Md., Baltimore—Madison Realty Corp., 405 Katz Bldg., incorporated; Herman Samuelson, 111 N. Charles St.

Md., Rockville—Brosius Improvement Corp., capital \$20,000, incorporated; Charles T. and John W. Brosius.

Miss., Sanford—J. J. Johns, Gulfport, interested in organizing \$50,000 co-operative organization for farm development.

Mo., Kansas City—Saline County Farms Co., Inc., chartered; Louis Lowenstein, 6542 Jefferson St.

N. C., Asheville—Sawyer Realty Co., incorporated; Clarence and James R. Sawyer, N. Kensington Rd., Irvin Pk.

N. C., Canton—Bon-A-Venture, Inc., chartered; W. J. Parks, Asheville; G. F. Smith, Canton.

N. C., Marion—R. M. Mead, Asheville, N. C. and Cleveland, O., associates, care C. W. Chapman, Marion, reported, acquired 6,400 acres at Lake Tahoma near here; plans \$1,000,000 development, including golf course, private and public beaches, club house and residential section.

N. C., Mount Holly—River Bend Realty Co., capital \$100,000, incorporated; R. L. Jenkins, F. L. Rankin.

Tenn., Elizabethton—Elizabethton Realty & Development Corp. incorporated; D. W. Brundage, Logansport, Ind., and 613 N. Main St.; R. R. Harrill, Elizabethton; develop 18-hole golf course and subdivision outside city, also park plan cemetery. 8-1

Tex., Abilene—Reporter Realty Co., capital \$50,000, incorporated; Max Bently, Bernard Hanks.

Tex., Canyon—L. A. Wells, 1600 Taylor St., C. W. Carson, Jr., 2047 Hayden St., both Amarillo, and associates acquired and will subdivide 5020 acres southwest of here.

Tex., Corpus Christi—City, Harry N. Carter, Street and Park Commr., considering developing 165 acre park and golf course.

Tex., Corpus Christi—Judge H. R. Sutherland, Law Nixon Bldg., and associates, reported, expend \$3,000,000 in developing all year round resort on Padre Island.

Tex., Houston—George W. Burkitt, Jr., Mann-McKinney Bldg., acquired 50 acres on Market St. Rd.

Tex., Laredo—Everett Love, plans increasing acreage of onion ranch to about 1450 acres; granted permission from State Bd. of Water Engrs., Austin, to use water from Rio Grande to irrigate additional 640 acres.

Tex., Pampa—City voted \$20,000 park and playground bonds. 8-8

Tex., San Antonio—City receives bids Sept. 2 for Riverside Park golf course, retaining wall at Woodlawn Lake, cold rolled asphalt road in Lincoln Park and improvements to tennis courts.

Tex., San Antonio—Lee Dillingham, 1510 Rosewood St., and associates acquired 30 acres; develop tourist camp; expend \$100,000.

Tex., Stephenville—W. H. Maclay, Const. Indus. Bldg., Dallas, reported, acquired ranch of about 14,000 acres between Stephenville and Bluff Dale; erect wolf-proof fence.

Va., Lynchburg—Oakwood Corp., capital \$50,000, incorporated; Chas. E. Burke.

Va., Lynchburg—Fort Hill Burial Park, Inc., J. R. Goodwin, Jr., Sec.-Treas., Salem, develop 60 acres for burial park; build drive-ways, etc.; Hare & Hare, Huntzinger Bldg., Kansas City, Mo., Landscape Archt.

Va., Norfolk—Spottswood Manor, Inc., capital \$100,000, chartered; Alex O. Ferebee, Arcade Bldg.

Va., Richmond—Evergreen Farms, Inc., capital \$15,000, chartered; R. C. Carden, 3216 Patterson Ave.

W. Va., Huntington—Whitt-Clark-Roach Co. Inc.; chartered; Russell Whitt, 414 11th St.

### Lumber Enterprises

Mo., Kansas City—Lapsley-Baker Lumber Co., 1718 Brooklyn Ave., rebuild plant damaged by fire; cost \$90,000.

Mo., St. Louis—Saylor Tie & Timber Co., capital \$20,000, incorporated; H. N. Saylor, Jr., Ry. Exchange Bldg.

N. C., Candler—Hominy Lumber Co., capital \$50,000, incorporated; R. E. Holcombe, 101 Woodward Ave., Asheville.

Tenn., Knoxville—See Miscellaneous Enterprises.

N. C., Wilmington—W. E. Godwin & Sons Lumber Co., Wilmington, erecting lumber shed estimated to contain 1,000,000 ft. storage capacity.

S. C., Georgetown—Frank J. Tyson, Georgetown, acquired holdings in Georgetown County of Winyah Lumber Co., known as Penniman Tract, consisting of 4,600 acres original pine growth, right-of-way leading from tract to Sampit River here, railroad track along right-of-way; secured option on plant site and possibly operate planing mill to handle higher grades of lumber.

Tex., San Antonio—National Lumber & Building Corp., capital \$25,000, incorporated; C. B. Horton, 411 E. Laurel St.

Virginia—J. Walter Wright Lumber Co., Bristol, Tenn., secured timber rights on about 7,000,000 ft. timber, Natural Bridge Federal Forest, Rockbridge and Botetourt Counties; move to Chesapeake & Ohio Ry. at Greenlee over new highway to be built to area to be cut over.

### Mining

Ala., Tusculum—Schuyler Hoff, Buffalo, N. Y., Sec. National Lime Cement & By-Products Corp., Sheffield, Ala., and S. W. Zepp, of Soule & Zepp, Conslt. Engrs., 507 N. Charles St., Baltimore, Md., conferring with Thomas K. Morris, V.-Pres. of company, in connection with proposed \$250,000 plant 5 mi. west of here; engineers advise nothing done on plans. 7-18

S. C., Bennettsville—D. W. Stewart develop kaolin deposit near here, estimated at 1,176,000 tons. See Want Section—Machinery and Supplies.

Tex., San Angelo—Alamito Mining Co., R. E. Beamon, V.-Pres., plans letting contract within 6 weeks for 300-ft. shaft on Cerrito Group, uncovering silver-lead ore, to be complete within 3 months after starting work; plans purchasing only small engine for hoist in connection with work; install 50-ton mill. 8-15

Tex., San Antonio—Schoenfeld Quarries, Inc., capital \$175,000, chartered; Charles M. Schoenfeld, 324 Hunstock St.

Va., Danville—Virginia-Carolina Granite Co., Inc., capital \$100,000, chartered; T. S. Williamson.

### Miscellaneous Construction

Arkansas—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., let contract to F. D. Harvey & Co., 688 S. Bellevue Ave., Memphis, Tenn., for 13,000 cu. yd. earthwork in Phillips County Drainage Dist. No. 1 of Phillips and Monroe Counties. 8-15

D. C., Washington—Knights of Columbus, Chas. W. Darr, State Deputy, Vermont Bldg., let contract to R. P. Whiting Co., Inc., Denrike Bldg., for James Cardinal Gibbons memorial, 16th and Park Rd., N. W.; Leo Lentelle, Sculptor, 51 W. 11th St., New York; Rich, Matheson & Koyl, Archts., 320 Fifth Ave., New York. 8-8

Fla., Fort Pierce—City will apply for War Dept. permit for fill in Indiana River, foot of Ave. A., to be used for recreation purposes, extend into river approx. 400 ft., having surface width of about 70 ft.

La., Marrero—See Miscellaneous Enterprises.

La., New Orleans—Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., opens bids Sept. 4 for repairs to wharves.

Md., Frederick—City considering constructing \$30,000 to \$40,000 inclinator.

Miss., Belzoni—Fill—See Roads, Streets, Paving.

Miss., Ellisville—Road Comms. of Supervisors Separate Road Dist., beats 1, 2 and 5, Jones County, Office of Chancery Clk. opens bids Sept. 4 for creosoted lumber and creosoted piling for retaining wall on Laurel-Waynesboro Rd., 200 ft. long; apron, creosoted lumber, 11,270 lin. ft., 720 lin. ft. creosoted piling.

Missouri—U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, opens bids Sept. 7 for constructing about 5700 lin. ft. standard revetment, Missouri River, Pelican Bend, 7.2 mi. from Ft. Bellefontaine.

Missouri—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., has low bid from J. C. Johnson Construction Co., 5810 Miami Ave., Tampa, Fla., for constructing 2,153,000 cu. yd. earthwork on Birds Point-New Madrid Levee, at 25 cents per cu. yd. 8-8

Missouri—U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, opens bids Sept. 5 for constructing about 5800 lin. ft. standard pile clump dikes, and about 3300 lin. ft. standard revetment, Missouri River, St. Albans Bend, 1 mi. from St. Albans.

Mo., Brunswick—U. S. Engr. Office, Postal Telegraph Bldg., opens bids Sept. 4 for constructing about 4800 lin. ft. standard pile clump dikes, and about 6000 lin. ft. standard revetment, Missouri River, Grand River Bend, 3.4 mi. from here.

Mo., Canton—City, Geo. L. Martin, Mayor, has preliminary plans in progress for changing course of creek running through town and raising levee; Russell & Axon, Conslt. Engr., Springfield, and 2600 Easton Ave., St. Louis.

Mo., Kansas City—Troost Avenue Cemetery Co., Edwin P. Blair, Mgr., 7309 Madison St., plans expending \$500,000 in spring erecting mausoleum, adjacent to present structure, Forest Hill Cemetery, 60th St. and Troost Ave.; 2-story, Gothic design, 1200 crypts; architectural plans being prepared.

Mo., St. Charles—U. S. Engr. Office, Postal Telegraph Bldg., Kansas City, opens bids Sept. 6 for constructing about 4800 lin. ft. standard pile clump dikes, Missouri River, St. Charles Bend, 1.8 mi. from here.

Mo., St. Louis—Bd. of Public Service, City Hall open bids Sept. 17 for Buder bathhouse and swimming pool, installing plumbing and drainage, electric work and heating and ventilating in same.

S. C., Charleston—Navy Dept., Bureau of Yards and Docks, Washington, D. C., opens bids Sept. 11 for extension to drydock, Navy Yard.

Tenn., Nashville—Howell Buntin, State Game Warden, considering establishing fish hatchery and game farm.

Texas—U. S. Engr. Office, Postoffice & Tremont St., Galveston, opens bids Sept. 16 for constructing levee on east bank Brazos River beginning above Velasco, extending to above Buffalo Camp Bayou, 52,840.5 ft., and containing approx. 566,600 cu. yd. fill.

Tex., El Paso—City Council passed on ordinance requiring Southern Pacific Co. (in Texas and Louisiana), R. W. Burnes, Ch. Engr., Houston, and Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, to construct 6 subways in downtown dist.

Tex., Fort Worth—W. T. Waggoner & Sons, W. T. Waggoner Bldg., reported, constructing \$2,000,000 race track.

Tex., Galveston—Galveston Wharf Co., 2324 B St., let contract to E. A. Whitney & Son, City Bk. Bldg., Kansas City, Mo., for piling, connection with \$1,500,000 elevator, including hollow tile office building, Pier 28; drive about 425,000 ft. piles, about 1000 piles, 40 ft. long, about 5000 45 ft. long and 3200 50 ft. long; B. F. Fristoe, Ch. Engr. on piling job; leveling ground and laying stakes complete; elevator contract not to be let for some time. 8-8

Tex., Galveston—Galveston Wharf Co., 2324 B St., and Cotton Concentration Co., Commerce Bldg., reported, merged into Export Finance Co. of Texas, involving combined assets of \$10,000,000; George Sealy, Pres. of both merging companies.

Tex., Houston—Port Comm., B. C. Allin, Port Director, let contract to Don Hall, Cotton Exch. Bldg., at \$54,000 for wharf near Manchester docks.

Tex., Port Arthur—City Comm. named J. B. Converse Co., J. B. Converse, Pres., State Office Bldg., Mobile, Ala., consulting engineers for \$1,500,000, 4-mi. seawall; vote bonds in October. 6-20

Tex., San Antonio—City, G. L. Lain, Asst. City Clk., opens bids Sept. 3 for constructing stone retaining wall for Recreation Bldg., Woodlawn Lake; J. Rubiola, Park Commr.

West Virginia—Theodore Fearnow, fish culturist for State Fish Comm., Charleston, laying pipe line preparatory to constructing fish hatchery at Birch Grove.

### Miscellaneous Enterprises

Ala., Andalusia—J. G. Dunn, of Sessoms

Grocery Co., contemplates erecting and equipping meat curing plant in connection with cold-storage maintained by company; provide refrigeration for 300 booths.

Ala., Anniston—United Chamber of Commerce, C. A. Hamilton, Pres., negotiating with manufacturer of surgical wares for establishing plant here; 152,000 sq. ft. floor space and require model mill village of over 200 houses; tentative plans require citizens of Anniston to erect building and village and lease to manufacturer for number of years, with guarantee of ultimate purchase; involve over \$500,000.

Ala., Dothan—Dothan Eagle erect newspaper plant equipped with 16-page rotary press and new stereotyping and linotyping facilities.

Ala., Ensley—Tennessee Coal, Iron & Railroad Co., Birmingham, reported, expend about \$185,000 developing basic slag plant and soil food industry; ordered machinery.

Ark., Fort Smith—Fire Fighting—City, Earl Henderson Commr., City Hall, plans \$182,200 bond issue for fire stations and equipment.

Ark., Little Rock—Fire Fighting—City, Pat Robinson, Mayor, voted \$300,000 bonds for fire fighting apparatus and fire alarm system. 8-1

Ark., Paris—Wallace D. Hurley acquired Paris Express, weekly paper.

D. C., Washington—Sanitary Grocery Co., Inc., 1845 Fourth St., N. E., will let contract to George E. Wyne & Co., 2525 Pennsylvania Ave., N. W., for bakery and manufacturing building.

Fla., Clewiston—Southern Sugar Co., B. G. Dahlberg, Pres., 645 N. Michigan Ave., Chicago, Ill., reported, increasing capital \$25,000,000; issue 500 additional shares stock no par value; previous capitalization, \$5,000,000.

Fla., Clewiston—Clewiston Dairy Co., incorporated; O. L. Jeffries, M. G. Dauber.

Fla., Fort Meade—Fort Meade Coca Cola Bottling Co. erecting plant; 36x48 ft., 2-story, conc. foundation, conc. block, faced brick; raze present plant and use material for constructing garage to house company's trucks.

Fla., Hialeah—Universal Cigar Co., Inc., chartered; Jose Valdez, W. M. Warren.

Fla., Jacksonville—Engineering and Construction—Monticello Construction Co., incorporated; W. H. McCoy, 1118 Winthrop St.

Fla., Jacksonville—Continuous Wood Distillation Co. incorporated; R. L. Diggs, 3722 Pine St.

Fla., Jacksonville—Ward Baking Co., A. F. Parsons, Mgr., 2625 Walnut St., advises not contemplating erecting plant in near future. 8-22

Fla., Miami—Miami Exposition & Amusement Park, Inc., immediately construct amusement park, Coral Way, bet. S. W. 17th and 21st Ave.; contemplate erecting swimming pool, 200x400 ft.; ballroom and convention hall; cyclone coaster; gardens, etc.

Fla., Miami—Miami Atlantic Mtg. Co. and others, 128 N. E. First St., contemplate amusement park on 40-acre site, Red Road & W. Flagler St.; Vernon C. Seaver in charge; Harry C. Baker, Archt., Grand Central Term., New York.

Fla., Miami Beach—Atlantic Publishing Co., incorporated; J. H. Robillard, 614 Collins Ave.

Fla., Palatka—Tung Oil—Loveland & Tanner, C. W. Loveland, fiscal agents for Florida Tung Oil Corp., Gainesville, preparing to plant 1000 acres tung oil trees; erecting house for custodian.

Fla., Perry—Mrs. J. L. Markey establish candy plant.

Fla., St. Augustine—Superior Dairies, Inc., capital \$20,000, chartered; L. E. Parrish.

Fla., Tampa—Specialty Mfg. Co., Inc., capital \$10,000, chartered; W. J. Lancaster, 436 W. Lafayette Ave.; manufacture razors, razor blades, etc.

Fla., Tampa—Southern Beverage Corp., incorporated; Angelo Ferlita, Vincent Semprina, 5010 20th Ave.

Ga., Rome—Coosa River Transportation Co., Rome, authorized by Alabama Public Service Comm. to operate barge lines between Rome, Ga., and Riverside, Ala., on Coosa River and between Wetumpka, Ala., and Mobile, Ala., on Alabama River; C. A. Cox, Pres., Ragsdale, Ala.

Ga., Savannah—Southern Building Products Corp., forming as Georgia corporation for Certain-teed Products Corp., 100 E. 42nd St., New York; Remer L. Denmark, Savannah Fire Ins. Bldg.; operate on Foundation tract acquired by Certain-teed Products Corp.;



build, equip and establish plant or plants for the manufacture roofings, roofing materials, including building papers and sheetings, paper boards, mill boards, paints, oils, varnishes, etc. 6-20

Ky., Louisville—Advance Battery Co., 227 E. Lee St., let contract to National Concrete Construction Co., Board of Trade Bldg., for plant addition.

La., Bogalusa—J. H. Slaughter, Pres., Chamber of Commerce announced Bogalusa Building Corp., capital \$50,000, being organized to buy, lease or construct property for use of industries desiring or contemplating locating in city; D. T. Cushing, J. B. Linsley, members of committee.

La., Keatchie—Magnolia Cheese Corp., A. J. Scott, Pres., Greenwood, soon begin erecting \$15,000 cheese plant; 10,000 lb. milk daily, cheese production of 1200 lb.; plan erecting at least 5 plants; officers include; J. H. Dixon, V.-Pres. and Mgr.; W. M. Witherpoon, Treas., both Shreveport.

La., Marrero—General Industrial Alcohol Co., Inc., Walter J. Trautman, Pres., contemplates erecting warehouse and wharf addition to alcohol plant, costing \$50,000.

La., New Orleans—Sharp & Dohme Co., Inc. (Drugs, etc.) make extensive alterations to laboratory and office, 516-18 Common St. costing approx. \$100,000.

La., New Iberia—Celotex Co., 919 N. Michigan Ave., Chicago, Ill., reported, acquired paper mill formerly owned by Boldt Paper Co., manufacturing paper from bagasse.

La., Oakdale—Paradise Colonization Co., Inc., Shreveport, acquired cut-over pine land east of here; started blowing stumps and closed contract with DeQuincy firm for consumption of stumps.

Md., Baltimore—Kessler Chemical Corp., Calvert Bldg., incorporated; James Lee Kauffman, Trenholm H. Marshall.

Md., Baltimore—P. C. Streett Engineering Co., 404 St. Paul St., incorporated; Palmer C. Streett, Frederick W. Lange.

Miss., Waynesboro—Swift & Co., Union Stock Yards, Chicago, Ill., plan establishing cream station; Murray Gardner, representative.

Mo., Carthage—Nucarth Stone Co., E. H. Wetzel, Mgr., erect stone works plant; 1-story, 200x200 ft., rein. conc., brick; day labor; private plans.

Mo., Hannibal—Lewis-Hannibal Cleaning Co., capital \$20,000, incorporated; Robert M. Lewis.

Mo., North Kansas City, Kansas City—North Kansas City Carnation Co. doubling capacity of greenhouse; let contract to American Greenhouse Co., 1313 W. Randolph St., Chicago, Ill., for 3 additional buildings, 40x100 ft. each; 1, 40x150 ft.; to be complete early in October.

Mo., North Kansas City, Kansas City—Totman Coal & Feed Co., 18th and Swift St., acquired site, 25,000 sq. ft., 12th and Iron St., for building for handling coal and feed.

Mo., Springfield—Anchor Toy Co., capital \$50,000, formed to acquire toy dept. of Anchor Mfg. Co.; Fred C. Wood, Pres.; J. W. Sanders, V.-Pres., 312 S. Kimbrough St.; Anchor Mfg. Co., J. W. Sanders, Pres. (Mfrs. Store Fixture Displays and Brooms), erect modern, fireproof plant to house both companies. 7-11

Mo., St. Louis—Mississippi Glass Co., R. D. Humphries, Treas., 220 Fifth Ave., New York, and 110 Ferry St., St. Louis, advises, "Planning no important extensions to plant." 8-22

Mo., St. Louis—Krey Packing Co., 2100 Bremen St., let contract to Humes-Deal Co., Arcade Bldg., for \$300,000 packing plant, 3800 N. Florissant St.; 4-story, 375x139 ft., conc. roof, blast system heat; H. P. Henschien, Chicago, Ill.; Aegerter & Bailey, Architects, Ry. Exch. Bldg.

Mo., St. Louis—Missouri Hat Co., 1531 Washington St., capital \$20,000, incorporated; Morris Samuels, Cape Girardeau; Oscar Brunstein, St. Louis.

Mo., St. Joseph—W. A. Fox Laundry Co., capital \$25,000, incorporated; W. A. Fox, 2806 Duncan St.

Mo., St. Louis—Vestal Chemical Co., F. J. Pollnow, Pres., 215 Pine St., acquired site for immediate erection large plant.

Mo., St. Louis—American Sand & Material Co., incorporated; Leo. H. Hummert, 3505 Gravis St.

Mo., St. Louis—Multiplex Faucet Co., J. J. Fitzgibbon, Sec.-Treas., 4325 Duncan Ave., let contract to Wendel Shasserre, 5973 Wells

Ave., for 1-story top addition to plant, Duncan & Boyle Ave.; 80x80 ft., wood joist, maple floors, steel sash, freight elevator; Wm. P. McMahon, Archt., Buder Bldg.

N. C., Charlotte—W. H. Twitty, Blandwood Apts., let contract within few weeks film exchange, W. Fourth St.; 45x130 ft., 1 story and basement, fireproof, brick, limestone; basement, projection room, screen room, batteries room, boilers and space for fuel and storage; first floor, offices, poster room, inspection and shipping rooms, film vaults; to be occupied by Metro-Goldwyn-Mayer, 1540 Broadway, New York.

N. C., Kings Mountain—B. J. King, 1700 Thomas Ave., Charlotte, acquired Kings Mountain Herald plant and book shop.

N. C., Kinston—L. B. Jenkins Tobacco Co., Inc., capital \$150,000, chartered; L. P. Tapp, L. B. Jenkins

N. C., Reidsville—Reidsville Baking Co., capital \$50,000, incorporated; W. B. Kilker, C. A. Farvel.

N. C., Statesville—Piedmont Plate Glass Co., capital \$100,000, incorporated; Clyde Martin, C. F. Williams.

N. C., Winston-Salem—Dixie Dowel Co., capital \$100,000, incorporated; R. C. Vaughn, Wachovia Bank Bldg.; dowel pins, rods and other furniture appliances.

S. C., Anderson—Fire Fighting—City plans bond issue for fire alarm system.

S. C., Charleston—Hahn Ice Cream Co., capital \$18,000, incorporated; H. A. Ray, 286 Congress St.

Tenn., Chattanooga—Fire Fighting—City let contract to American-LaFrance Fire Engine Co., Elmira, N. Y., for 3 fire engines and service truck.

Tenn., Elizabethton—E. T. Oliver, Elizabethton, and J. J. Polan, Pittsburgh, Pa., of Monghleigh R. R. Co., may establish plant to manufacture reel invented by Thomas J. Bosenberry, Elizabethton; especially adapted to manufacture of rayon; will initially let contract for manufacture of the reels.

Tenn., Jackson—American Creosote Works, 1305 Dublin St., New Orleans, La., acquired 40 acres southwestern section of city; immediately erect creosote plant.

Tenn., Knoxville—Tennessee Firesafe Lumber Co., C. W. Whitcomb, V.-Pres. and Gen. Mgr., erecting \$50,000 first unit lumber-treating plant, Gillespie Ave.; building on property of, and will be operated in conjunction with Appalachian Flooring Co., and with Maples Lumber Co., both Gillespie Ave., Knoxville, and American Hardwood Flooring, Glenmary; contracted with New York concern for entire output of 2,500,000 ft. yearly.

Tenn., Manchester—City purchased complete fire fighting equipment from American-LaFrance Co., Elmira, N. Y., including 500-gal. pumping engine mounted on high-powered truck, hose trailer and 500 ft. of hose, 2 ladders, 2 shut-off nozzles with play pipes.

Tenn., Maryville—Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa., reported, started erecting potroom building at reduction plant; 490x44 ft.; also equipping another potroom.

Tex., Brownsville—Bonded Warehouse & Storage Co., capital \$100,000, incorporated; J. M. Nix, 205 E. Travis St., San Antonio; operate warehousing service, including storage packing, crating, moving and hauling; occupy warehouse on Southern Pacific Ry., Los Ebanos.

Tex., Dallas—Agee Corp., C. D. Agee, V.-Pres. and Gen. Mgr., acquired large block of stock of Acme Screen Co., Inc., C. D. Agee, Pres., 915 S. Peak St., Dallas, and of Agee Screen Co., 419 S. Summit St., Fort Worth; contemplates opening additional branch plants throughout Southwest soon; recently increased capital stock, \$50,000 to \$100,000.

Tex., Galveston—Galveston Star Dairy, capital \$75,000, incorporated; James E. Carlson, 2115 43rd St.

Tex., Houston—Port Houston Rice Mill, Inc., capital \$24,000, chartered; Ben F. Arnim, 614 Byrne St.

Tex., Pampa—Your Laundry & Dry Cleaning Co., capital \$50,000, incorporated; V. R. Mordy, O. W. King.

Tex., San Angelo—O. D. Battle, operating nursery 63 W. Second St., announced plans for building nursery, Mertzon Hwy., including greenhouse, office and facilities for handling evergreen and other trees; water being piped to site and work on project to begin immediately.

Tex., Smiley—R. E. Downey, of Advertiser Press, Bastrop, establish weekly newspaper.

Tex., Temple—Herndon Produce Co. let

contract to Love Construction Co. for \$20,000 turkey and chicken dressing station and packery, Second St. near Ave. B; conc., hollow tile, 75x125 ft.

Tex., Taylor—Swift & Co., Union Stock Yards, Chicago, Ill., reported, erect \$150,000 cheese and poultry plant.

Tex., Waco—Hawk & Buck Co., 801 W. Rio Grande St., Fort Worth, move work plant from present location, Clifton Bldg., to Sanger warehouse, Oct. 1; installing cooling and ventilating systems and making provision for steam heat; install additional sewing, cutting and buttonhole machinery; increase daily output, 300 doz. to 600 doz.; C. H. Wood, Supt.

Virginia—W. J. Biever, of Phillips-Jones Co., 122-5 Broadway, New York, seeking immediate location for several industries to manufacture separately pajamas, shirts and Van Heusen collars.

Va., Fredericksburg—Sylvania Industrial Corp., incorporated; F. M. Reichel, agent in charge of business; general manufacturing, mercantile and commission business. 8-15

Va., Winchester—C. Douglas Brown & J. Clayton Cochran open large bakery; let contract to Bread Machinery Co., York, Pa., for latest types of break-making machinery; to C. A. Gorndt Oven Co., Atlanta, Ga., and New York, for modern bread ovens; leased 2-story building, Indian Alley; operate as B. & C. Baking Co.

W. Va., Berkeley Springs—F. A. Dare, representing Wm. H. Powell, Mullican Hill, N. J., negotiating with Chamber of Commerce for establishing plant to manufacture non-shatterable glass for windshields, etc., by newly invented process.

W. Va., Fairmont—Interstate Construction Co., capital \$10,000, incorporated; F. J. Patton, Jacobs Bldg.

W. Va., Spencer—Calumet Mfg. Co., Hammond, Ind., plans establishing garment plant; 40x160 ft.; stock to amount of \$25,000 to be subscribed by local citizens; Senator E. W. McKown, Chmn. of Committee seeking new industries for city.

### Motor Bus Lines and Terminals

La., Opelousas—Teche Transfer Co., Franklin, acquired Stewart Stage Lines, Inc.

Tex., Galveston—A. L. Burge authorized by Railroad Com. to operate bus line, Galveston to Port Arthur, High Island.

Va., Virginia Beach—Norfolk Southern Bus Corp., Norfolk, authorized by Corporation Com. to operate motor transportation service over Ocean Shore Drive, Ocean View to Virginia Beach.

Va., Richmond—Greyhound Lines, 1157 S. Wabash Ave., Chicago, Ill., acquired operation of motor coaches between Richmond and Washington, D. C.; Richmond, Fredericksburg & Potomac R. R. Co., Eppa Hunton, Jr., Pres., acquired 49% interest in line and sold 6 motor coaches to line, to be put into operation and known as Richmond Greyhound Lines; Chauncey McCormick, Chmn. of Bd.; C. S. Caesar, Pres., Chicago, Ill.; operation of line to be supervised by W. H. Palmer, Richmond.

### Motor Cars, Garages, Filling Stations

Ala., Dothan—Riley Atkins Chevrolet Co. erect \$30,000 automobile building, W. Main St.; probably begin work about Jan. 1, 1930.

Ark., Pine Bluff—Louisiana Oil & Refining Co., Shreveport, La., acquired properties here of Big Four Oil Co., consisting of large warehouse and distributing plant, and equipment in 16 filling stations in city and vicinity.

Ark., Russellville—Auto Service Station let contract to W. C. Baltis Construction Co. for garage, 306 W. Main St.; Spanish style stucco.

D. C., Washington—American Ice Co., 320 F St., N. W., let contract to W. L. Belt, 1524 Allison St., N. W., for \$50,000 garage, 15th & Eames St., N. E.; 1-story, brick; C. L. Weir, Archt., 13 E. 37th St., New York.

D. C., Washington—Warren F. Brenizer, 101 N. Y. Ave., N. E., has permit for \$15,000 garage, 1515 S. Capitol St., S. W.; 1-story, brick, conc.

Fla., Orlando—Firestone Tire & Rubber Co., 118 W. Central Ave., Orlando, and Akron, Ohio, has revised plans in progress, ready for bids about Sept. 1, for service station; Francis J. Kennard & Son, Architects, 303 Zack St., Tampa.

Fla., Fort Myers—Forehand Tire Co., Inc., chartered; F. E. Forehand, F. A. Harris.

Fla., Winter Haven—Winter Haven Motor Co. incorporated; H. R. Cole, D. J. McNevin.

Fla., Jacksonville—International Publishers, Inc., Wheeling, W. Va., plans leasing old Eagle Studio at Arlington for producing moving pictures.

Fla., Tampa—P. H. Collins, 711 S. Fielding Ave., let contract to Tampa Builders, Inc., for \$12,500 filling station, Tampa and Whiting St.; Schumaker & Winkler, Archts., 610 Magnolia St.

Ga., Augusta—L. M. Hutto, Ellis St., abandoned original plans for garage and making minor alterations to present building by day labor; Scroggs & Ewing, Archt. 7-18

Ga., Washington—Sinclair Refining Co., 175 Walton St., N. W., Atlanta, let contract to Howell Construction Co., Marion Bldg., Augusta, for filling and service station; contractor asking sub-bids.

Ky., Louisville—Hurry-Up-Broadway Co., 329 E. Broadway, erect \$100,000 garage; B. B. Davis, Archt., Columbia Bldg.

Ky., Louisville—India Tire Sales Co., capital \$10,000, incorporated; C. A. Koerner, 318 E. Burnett St.

Md., Baltimore—Chas. Neubert & Co., 111 Hollingsworth St., let contract to Milske Bro., 2125 Orleans St., for 46 individual garages, rear Clifton Ave., near Windsor, 9x16 ft. each, 1-story, brick; cost \$15,000; owner, Archt.

Md., Baltimore—Crane Garage & Service Co., 3010 Windfield Ave., incorporated; Leon A. Crane, David M. Brenner.

Md., Baltimore—Following have sub-contracts for \$130,000 building, Charles and 24th Sts., for Harry E. Gilbert, 2 E. Lexington St., to be occupied by Cunliffe Cadillac Co., Mt. Royal Ave. and Charles St.; Cement, Hudson Building & Supply Co., 1802 Whitmore Ave.; glass and glazing, Pittsburgh Plate Glass Co., 8 S. Paca St., and Pittsburgh, Pa.; steel sash, Detroit Steel Products Co., Fidelity Bldg.; orna. iron, Maryland Steel Products Co., Standard Oil Bldg.; dumbwaiters and ash crane, Walters Bruns, 509 N. Charles St.; elec. work, Murphy-Martin & Co., 6226 Belair Rd.; wire partitions, Enterprise Wire & Iron Works, 423 N. High St.; finishing hardware, Hubbard & Eggleston, 120 W. Baltimore St.; vault door, York Safe & Lock Co., 7 W. Redwood St.; millwork, Oxford Millwork Co.; steel rolling doors, Walters Bruns; fire doors and skylights, William E. Gambrill & Co., 213 East St.; roof and sheet metal, Chas. S. Dell, Ostend and Ridgely Sts.; painting, Farber Burgess Co., 7 E. Pleasant St.; waterproofing powder, L. Sonneborn Sons, Inc., 513 W. Lombard St.; Howard F. Baldwin, Archt., 339 St. Paul St.; Kubitz & Koenig, Engrs., Emerson Bldg.; North Eastern Construction Co., Gen. Contr., 6 W. Madison St. 8-1

Md., Hyattsville—Suburban Motor Sales Co., incorporated; Harvey G. Machen, Rob Roy MacGregor.

Md., Leonardtown—Morris Thrift and George S. Miles erecting large filling and service station, Washington Blvd. and Lawrence Ave., to include tea room, waiting room, washin and greasing stand, conc. driveway and parking space; William C. Freeman, Contr., Clements.

Miss., Ackerman—Ackerman Motor Co. razing recently acquired J. L. Seawright Bldg., Court Square; immediately erect sales and service building; brick, steel, plate glass.

Miss., Macon—W. L. Shannon started erecting garage, Jefferson and Monroe St.; office and show room, 18x66 ft.; garage, 45x65 ft.

Mo., Joplin—Joplin Tire Service Co., 419 Joplin St., immediately erect building, Wall bet. Fifth and Sixth Sts.; 25x105 ft., brick, frame; include offices, showrooms, tire repair dept., tire storage room, garage, etc.; install 5 500-watt floodlights to light building.

Mo., Kansas City—Sight Bros. Motor Co., capital \$70,000, incorporated; Isadore Rich, 538 Lathrops Bldg.

Mo., Poplar Bluff—Cahill-Moore Motor Co., capital \$20,000, incorporated; G. E. Cahill, Herbert Moore, both Cape Girardeau.

Mo., Sedalia—Triangle Motor Co., capital \$10,000, incorporated; E. E. McClain, 32nd & Washington Ave.

Mo., St. Louis—Mack-International Co., main office, 25 Broadway, New York, let contract to Fruin-Colnon Contracting Co., Merchants-Laclede Bldg., for sales and service building, Chouteau Ave. near Jefferson Ave.; brick, steel, rein. conc., 1 and 2-story and basement, approx. 200x285 ft.; H. E. Foster, Archt., 2346 Daily News Plaza, 400 W. Madison St., Chicago, Ill. 7-25

Mo., St. Louis—Trusty Brake Service, Inc., 2010 Olive St., chartered; Roy E. Jones, 5061A Lotus St.

Mo., St. Louis—Texas Co., 332 S. Michigan Ave., Chicago, Ill., let contract to McKelvey-Carter Co., 3800 W. Pine St., for \$17,000 garage, 5025 Brown St.; owner, Archt. 8-22

Mo., St. Joseph—Foster-Hall Tire Co., Ralph D. Foster, Victorian Court, increasing capital stock, \$125,000 to \$175,000.

Mississippi—See Gas and Oil Enterprises. N. C., Hickory—Hickory-Hudson Motor Co., capital \$25,000 incorporated; R. P. Hinson, J. P. McCorkle, Lincolnton.

Tenn., Knoxville—Tinsley Tire Co., Stanley H. Tinsley, Main and Gay St., drawing plans for \$25,000 building, Henley and Cumberland Ave.; L. M. & S. A. Dow, Archts., Bownslow Bldg.

Tenn., Memphis—G. I. Frazier, Bk. of Commerce Bldg., has low bid from Sam Malkin, 160 Union Ave., at \$23,999 for service station and warehouse, Union Ave.; 2-story, 102x67 ft., brick, conc., struc. steel; Joe T. Wallace, Archt., Bk. of Commerce Bldg.

Tex., Burnet—H. B. Duncan let contract to M. W. Nolan for garage; 45 x 70 ft., stucco, plate glass.

Tex., Dallas—William Morriss, Burt Bldg., and W. A. Schanable acquired Worsham Buick Co. of Dallas, J. M. Worsham, Pres.; changing name to Morriss Buick Co., William Morriss, Pres.; move to new building, Cedar Springs and Pearl St.

Tex., San Antonio—F. C. Davis, Brady Bldg., and Mrs. Amanda Webb, open bids Sept. 3 for building, Lexington and Elmira St.; 1 story, 55x161 ft., brick, tile, rein. conc., stucco, conc. and terrazzo floors; Associated Motors, Inc., Lincoln dealers, Lessees; W. E. Simpson Co., Engr.; Robt. B. Kelly, Archt., both Milam Bldg.

Tex., Texarkana—H. P. Stephens Motor Co., capital \$15,000, incorporated; H. P. Stephens, F. T. Rainey.

Tex., Wichita Falls—G. L. Allen erect filling station, Polk and Ave. J.

W. Va., Kenova—C. K. Chevrolet Co., incorporated; E. A. Marshall, 1st Natl. Bk. Bldg., Huntington.

### Railways

Mo., Kansas City—Kansas City Southern Ry. Co., C. E. Johnston, Pres., applied to Interstate Commerce Comm. for authority to issue \$425,000 first mortgage bonds.

Tex., Matador—Quannah, Acme & Pacific Ry. Co., H. Sommer, Pres., Frisco Bldg., St. Louis, Mo., applied to Interstate Commerce Comm. for authority to construct 15 mi. line Matador to point 15 mi. northwest. 8-15

### Railway Shops and Terminals

Tex., Big Spring—Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, starts work within few days on 150,000 cu. yd. grading; construct 13 large buildings, several small structures and rearrange tracks; roundhouse to have 33 stalls, each 120 ft. deep; roundhouse foreman's and master mechanic's office building, powerhouse, machine shop, blacksmith and boiler shop, storehouse and office building, 5 car repair buildings, oil house, washer, locker building, etc.; freight-house under construction, 40x225 ft. 4-11

W. Va., Fairmont—Baltimore & Ohio R. R. Co., H. A. Lane, Ch. Engr., Baltimore, Md., appropriated \$50,000 for new concrete, mechanical coaling station, modern, replacing old wooden tippie; storage capacity, 300 tons coal and 100 tons wet sand, serve 4 tracks; bids due Aug. 30; Thomas K. Fa-herty, Supt. of Monongah Div.

### Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

### Proposed Construction

Alabama—State Highway Comm., Woolsey Fennell, Highway Dir., Montgomery, receives bids Sept. 17 for 3 roads; Cleburne County—16.95 mi. gravel road, Heflin to Georgia line; St. Clair-Talladega Counties—7.75 mi. chert surfacing, between Pell City and Lincoln, 7,700 cu. yd.; Choctaw-Marengo Counties—grade, drain, approach road to river bridge near Nanafalia, 70,000 cu. yd. excavation, 1,728 lb. rein. steel.

Ala., Mobile—Mobile County Bd. of Revenue and Road Comms., E. C. Doody, Clk., receives bids about Jan. 1, 1930, for paving 4 roads: 14 mi. Citronelle-Mt. Vernon; 1 mi. Conception St. road; 14 mi. Tanner-Williams; 6 mi. Cottage Hill; J. R. Peavy, County Engr. 8-1

Ala., Eutaw—State Highway Comm., Woolsey Fennell, Highway Dir., Montgomery, receives bids Sept. 10 to grade, drain, surface road and earth approaches to bridge over Warrior River, part of road between Eutaw and Wedgeworth, 350,000 cu. yd. embankment, 15,779 cu. yd. excavation.

Ala., Gadsden—J. S. Moagane, 431½ Broad St., Owner, plans expending \$10,000 for street paving, curb, gutters and sidewalks in Edenwood, Gadsden; J. W. Campbell, Engr., Medical Bldg.

Ala., Linden—State Highway Comm., Woolsey Fennell, Highway Dir., Montgomery, receives bids Sept. 24 for 4.80 mi. clay gravel surface, between Millers and Thomasville, 5,000 cu. yd.

Ark., Conway—City Council considering paving dist., to repair and rebuild pavements on Davis, Harkrider and Washington St.; 30 ft. wide, central surface probably asphalt, curb and gutters.

Ark., DeQueen—City, J. E. Tobin, Mayor, plans receiving bids for 2 mi. grading, draining, curbing, gutters and paving in Street Improvement Dist. No. 1; J. C. Dawson, Engr., Texarkana.

Ark., Helena—State Highway Comm., Little Rock, preparing plans for broad conc. pavement, connecting Helena and West Helena.

Ark., Monticello—State Highway Comm., Dwight E. Blackwood, Chmn., Little Rock, plans 2½ mi. 18-ft. Warrenite surface from Monticello to State A. & M. College, including 2 mi. on Highway No. 13, Monticello to Gardner's filling station; C. S. Christian, State Highway Engr.

Fla., Miami Beach—J. Julien Southerland, First National Bank Bldg., Miami, probably advertise for bids in about 30 days for road-way through property adjoining Baker's Haulover on south.

Fla., Titusville—Brevard County Comms. receive bids Sept. 3 for 3 mi. sand asphalt paving, Ocean Blvd., from Indianalantic to Canova Beach.

Ga., Brunswick—City Comms. plan resurfacing with conc. or asphalt Newcastle St., Mansfield to G; pave I St., Newcastle to Norwich.

Ky., Ashland—City, John Kobs, Supt. of Public Works, plans expending \$75,000, as city's share widening West Winchester road, building overhead crossing, eliminating underpass in west end, widening Russell St. See Financial News Columns.

Ky., Lexington—City Comm. received low bid from W. T. Congleton & Co., Third and Walton Sts., for 4-ft. cement sidewalks on High St.

Ky., Louisville—City, Bd. of Public Works, received low bids totaling \$234,706 for paving 41 streets and alleys; Andrews Asphalt Paving Co., Inc., Inter-Southern Bldg.; Louisville Asphalt Co., 240 E. Lee St.; Henry Bickel Co., 435 Garden St.; George M. Eddy Co., Brook and Lee St.; F. G. Breslin Co., Thirty-second and Market St.; J. U. Schickli & Bros., 837 Greenwood Ave.; J. W. McFarland, 1220 River road; R. J. Hinman, 242 Saunders St.

Ky., Paducah—McCracken County Fiscal Court receives bids soon to gravel 6 roads: 1 mi. Lane road; 2 mi. east end of Lovelaceville and Florence Station road; 2 mi. New Hope; 3 mi. Metropolis and Lovelaceville; 1¼ mi. Burnley school road; 1¼ mi. Kelly road.

Ky., Russell—State Highway Dept., Ben Johnson, Chmn., Frankfort, considering improving Russell-Raceland road, Greenup County; J. S. Watkins, State Highway Engr.

La., Alexandria—City Council receives bids Sept. 3 for conc. sidewalks, cement curb, on Overton St., Vance Ave. to Fenner St.; Kelly St., Bolton to Gould Ave.

La., Independence—Town, Charles Anzalone, Mayor, plans paving principal streets.

La., Leesville—Vernon Parish Police Jury plans expending \$50,000 to open, build, improve and maintain 13 mi. road in Sub-Road Dist. No. 1, of Road Dist. No. 6, from point at or near Simpson High School to parish line near Seiper. See Financial News Columns.

La., Natchitoches—Advisory Committee, Road Dist. A-10, Natchitoches Parish, Oliver Fredieu, Sec., receives bids Sept. 14 for 2 roads: 4.61 mi. Collins-Campiti Ferry Highway; 4.87 mi. Powhatan-Campiti Highway.



La., New Orleans—Orleans Parish Levee Bd. plans reopening Tchoupitoulas St. near St. Andrew St. wharf; cost, exclusive of paving, \$150,000.

La., New Orleans—City, Bryson Villas, City Engr., plans expending about \$1,000,000 for 7 mi. permanent paving consisting of conc. base with asphalt, brick top or rein. conc.; 10 mi. temporary surfacing, of slag, broken stone, shell or gravel. 8-15

La., New Orleans—See Street Railways.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, received low bids for 5 roads and extending 2 bridges: Caroline and Dorchester Counties—1.01 mi. conc., Allen's Corner to end of Cont. Co-44, Federalburg, W. W. Truitt, Lincoln City, Del., \$16,365; Montgomery County—1 mi. conc., Dawsonville toward Old Germantown road, .79 mi. end of Cont. M-37 near Dawsonville toward Sugarland, M. J. Grove Lime Co., Lime Kiln, Md., \$32,787; Queen Anne's County—1.18 mi. macad., from near Grasonville (Winchester) toward Kent Narrows, Field-Barker & Underwood, Commercial Tr. Bldg., Philadelphia, Pa., \$32,600; Harford County—6.27 mi. conc. shoulders, Philadelphia road, Haha Branch to Stepeny, G. & L. Construction Co., Overlea, Md., \$20,625; Washington County—1 mi. concrete shoulders, Cearfoss Pike, Hagerstown city limits to conc. shoulders Cont. W-26, Bester-Long Co., 441 S. Potomac St., Hagerstown; Howard County—extend 2 bridges on Baltimore-Washington Blvd. between Trinity Church and West Elkridge, being 5.7 and 6.9 mi. from Baltimore City line, Mullan Contracting Co., 3945 Greenmount Ave., Baltimore, \$83,889; L. H. Steuart, Sec. 8-8

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids Sept. 3 for 4 roads: Allegany County—7.9 mi. conc. shoulders, National Pike, top of Green Ridge to Washington County line, Cont. A-62; Montgomery County—1.25 mi. conc., Brookville-Sunshine road, end of Cont. M-95 to Sunshine, Cont. M-121; 1 mi. conc., Dickerson toward Sugarloaf Mountain; 1.2 mi. conc., Dickerson toward Martinsburg, Cont. M-65; Prince Georges County—1.2 mi. conc., River road, Defense Highway to Cont. P-73, Cont. P-78; L. H. Steuart, Sec.

Md., Baltimore—City, Bd. of Awards, receives bids Sept. 3 to grade, curb, pave with cement conc. streets in Cont. 535, 15,500 sq. yd.; Nathan L. Smith, Highways Engr.

Md., Baltimore—Bd. of Awards received low bid from Arundel Construction Co., Knickerbocker Bldg., \$24,519, for 11,635 sq. yd. alley paving, in Alley Cont. No. 136; from F. Bondaio \$29,893, for grading, draining, cement conc. paving streets, in Street Cont. No. 533; Nathan L. Smith, Highways Engr. 8-15

Md., Baltimore—State Roads Comm., G. Clinton Uhl, Chmn., receives bids soon to pave 1½ mi. 36 ft. wide Lake Ave., York to Hillen road; 1 mi. 36 ft. wide Caton Ave., Washington Blvd. to Wilkens Ave.; L. H. Steuart, Sec.

Md., Baltimore—City, Bd. of Estimates, authorized expending \$59,300 to pave 8 roads and avenues, including Castlewood, Cotswold Greenleaf roads; Anoka Ave.; Nathan L. Smith, Highways Engr.

Md., Edmonston—Town, R. C. Eaton, Clk., receives bids Sept. 6 to pave with crushed blue stone and tar, Wells Ave.

Miss., Aberdeen—City will build asphalt street from new Frisco Depot to bridge.

Miss., Belzoni—Humphreys County Bd. of Supvs., A. R. Hutchens, Clk., receives bids Sept. 2 to furnish gravel and build 3 roads, fill and culvert: Devovente road; Jones road, out from Pluck Plantation; Woodyard road; fill and culvert, Supvs. Dist. No. 1, across Halbert Bayou.

Miss., Columbia—City, Jno. J. Richards, Clk., receives bids Sept. 5 to gravel Bishop Road No. 3; Wood bridge on Cedar Creek, Dist. No. 4; wood bridge on Jim Creek, Dist. No. 4; extend conc. culvert on air line road, Eggleston Place, Dist. No. 3.

Miss., Houston—Town, R. F. Brand, Clk., receives bids Sept. 17 for 28,150 sq. yd. cement conc. paving, 9650 lin. ft. conc. curb and gutter, grading, draining; Ashton Tooher, Mayor; Klyce & Harbub, Engrs., 705 Fourth and First National Bank Bldg., Nashville, Tenn.

Miss., McComb—City, B. E. Butler, Clk., receives bids Sept. 17 for 23,000 sq. yd. 6-in. rein. conc. or 2-in. asphaltic conc. paving, on 5-in. conc. base, 9,800 cu. yd. excavation, 7,900 ft. combined curb and gutter, 2,900 ft. 15 to 24-in. pipe; Henry A. Mentz & Co., Inc., Const. Engrs., McComb, and Hammond, La.

Miss., Mt. Olive—City, Mayor and Bd. of Aldermen, receives bids Sept. 3 for sidewalks, street crossings, grading, draining; J. L. Whelless, City Engr.

Missouri—State Highway Commission, Jefferson City, Col. C. D. Matthews, Chairman, plans starting immediately, completion of primary and secondary roads, with revenue from \$75,000,000 bond issue; will let contract within 30 days for \$3,000,000 road work, and before end of year for \$5,000,000 to \$7,000,000 road work; receives bids this fall for 3 roads, 4 bridges and overpass: Gravel Highway No. 25, Cape Girardeau County, from Gordonville to Dutchtown; bridge over St. Francis River, and new road at Fisk; over St. Francis River, Highway No. 84, Dunkin County; overhead crossing over Missouri Pacific R. R., Highway No. 53, Butler County; bridge over St. Francis River, Greenville, and road between Greenville and Taskee; bridge over Castor River, between Zalma and Highway No. 51, Bollinger County; T. H. Cutler, State Highway Engr.

Mo., Branson—City and State Highway Dept., Jefferson City, plan 1 mi. crushed rock paving, Highway No. 63, through city, from bridge near north entrance to bridge on south city limits; work to start in Sept.

Mo., Excelsior Springs—City, W. D. Flack, Clk., receives bids Sept. 26 for paving and 2 bridges, cost about \$20,000; plans for paving from J. W. Shikes, Kansas City; for bridges from W. C. Barues, Liberty. 8-22

Mo., Webb City—City plans expending \$20,000 to pave Daugherty St., Devon to College St. and west to Broadway; \$40,000, improve streets in Third and Fourth Wards. See Financial News.

N. C., Burlington—City, Earl B. Horner, Mayor, received low bid from W. J. Bowe, Augusta, Ga., for 10,000 cu. yd. grading, 1,500 sq. yd. conc. paving, 4,000 lin. ft. curb and gutter, 1,600 lin. ft. storm sewers; from Frank L. Saunders, Winston-Salem on 11,000 sq. yd. conc. sidewalks; A. C. Linberg, Const. Engr., Wellington. 7-25

Okla., Oklahoma City—County Commrs. acquired Fiftieth St., south; will grade and later gravel surface; Ralph S. Jones, County Engr.

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans paving with conc. Walker Ave., Twenty-ninth to Thirty-eighth St.

S. C., Anderson—City plans expending \$50,000 for street improvement. See Financial News Columns.

S. C., Spartanburg—Spartanburg County Highway Comm. considering expending about \$30,000 to surface treat 5 roads totaling over 6 mi.: Saxon Mills; Beaumont-Drayton link; Inman Loop; East Spartanburg-Glenale connection; Arkwright road; H. B. Humbert, County Engr.

Tenn., Knoxville—Dept. of Highways and Public Works, R. H. Baker, Commr., Nashville, preparing plans for road through Clinch Valley, from Knoxville, Knox County, to Grainger County line; T. E. McEwen, State Highway Engr.

Tenn., Memphis—City, C. D. Miller, Clk., plans paving and widening 14 streets, including Summer, Lamar Ave.; Cleveland and Poplar St.; Will D. Fowler, City Engr.

Tex., Amarillo—City, W. H. Durham, Mgr., receives bids Sept. 3 for paving, curb, gutter and excavation, Third Ave., Van Buren to McMasters St. 8-22

Tex., Big Spring—Howard County plans improving State Highways No. 1 and 9.

Tex., Claremont—Kent County, H. W. Davis, County Judge, plans 22.467 mi. gravel base course, bit. surface, Highway No. 84-A, Claremont to Fisher County line, Joe H. Caldwell, Res. Engr., Lubbock.

Tex., Clarendon—Donley County Commrs. Court plans 10 mi. road, from Hedley to south boundary line of Donley county. See Financial News Columns.

Tex., Corpus Christi—Nueces County, Nat Benton, County Judge, considering 3 highways: Corpus Christi to Eagle Pass through Orange Grove; Corpus Christi to Rio Grande City through Chapman Ranch, Premont and Kingsville; Corpus Christi to Brownsville along Hug-Coast Highway route. See Financial News Columns.

Tex., Corpus Christi—Ocean Beach Drive, Inc., plans 110 mi. hard surface highway entire length of Padre Island; causeway connecting Corpus Christi with northern end of Padre Island; Judge H. R. Sutherland, Corpus Christi, representative of syndicate of investors, to finance project.

Tex., Dallas—City, J. Waddy Tate, Mayor,

plans widening Houston St., 8 ft. in front of Union Station, for runway; John M. Young, City Engr.

Tex., Dallas—City Comm., plans opening, widening and straightening Howell St., Vine to McKinney Ave.; E. A. Wood, City Plan Engr.

Tex., El Paso—War Dept., Washington, D. C., granted permit to El Paso County, D. B. McClintock, County Judge, to build highway across corner of Fort Bliss military reservation; J. W. Carter, Acting County Engr., making survey.

Tex., Fort Worth—Tarrant County, Damon A. Davis, County Engr., completed plans for Northwest Highway, from Royal St. Bridge to Lake Worth; State Highway Dept., Austin, may let contract Sept. 17 to grade and drain road; 40-ft. pavement from Royal St. Bridge across river bottoms; vicinity of North West Twelfth St. to be boulevard, with two 20-ft. drives, 22-ft. parkway.

Tex., Fort Worth—City, O. E. Carr, Mgr., considering widening 20 ft., and paving Hemphill St., Rio Grande to Magnolia Ave.; D. K. Lewis, City Engr.

Tex., Goose Creek—City, plans grading right of way on east side of Southern Pacific tracks, to connect East and West Main St.

Tex., Hansford—Hansford County plans paved highway from Stinnet to Spearman and Perryton. See Financial News Columns.

Tex., Houston—State Highway Comm., R. S. Sterling, Chmn., Austin, considering 20-ft. conc. super-highway between Houston and Galveston, from Houston to airport and through Friendswood to Galveston; Gibb Gilchrist, State Highway Engr.

Tex., Kermit—Winkler County Commrs. Court plans expending \$100,000 to hard surface road from north border of Texas to Wink intersecting Wink-Kermit Highway north of city limits. See Financial News Columns.

Tex., Pampa—City plans expending \$85,000 for paving. See Financial News Columns. 8-8

Tex., Port Arthur—City, J. W. O'Neal, Mayor, plans expending \$750,000 for street paving. See Financial News Columns. 8-1

Tex., San Antonio—City, Paul Steffler, Street Commr., plans paving Hansford St., Concepcion Road to South Presa St.; cost about \$18,000; I. Ewig, City Engr.

Tex., San Antonio—City, Paul Steffler, Street Commr., plans expending \$9000 to widen Josephine St. 50 to 65 ft., San Antonio River to Jones Ave.; widen Jones Ave. 14 ft. from Josephine St. to point west; I. Ewig, City Engr.

Tex., San Antonio—City, C. M. Chambers, Mayor, receives bids Sept. 3 for improving Monterey St., Frio to Medina; I. Ewig, City Engr.

Tex., Sherman—City considering paving South Crockett St. from present pavement to intersection with Highway No. 6.

Tex., Stinnett—Hutchinson County, H. M. Hood, County Judge, plans paving 18.2 mi. Highway No. 117, from Stinnett to Hansford County line. See Financial News Columns. 8-22

Tex., Tyler—Smith County, A. C. Gentry, County Engr., plans widening roads to 100 ft.

Virginia—State Highway Comm., H. G. Shirley, Commr., Richmond, plans improving 5 roads: Prince George County—extend Route 52 to point towards Route 35; Dinwiddie County—extend Route 47, 2.30 mi. to Nottaway County line; Brunswick County—extend Route 401, 2 mi. point towards Cochran; Amelia County—extend Route 406, 1.20 mi. to Powhatan County line; and 2 mi. toward Namozin; Sussex County—extend Route 52, 3.50 mi. to point toward Ivor.

Virginia—See Lumber Enterprises.

W. Va., Charleston—Kanawha County Court plans expending \$550,000 for 6 roads in Cabin Creek Dist., Kanawha River; Kelleys Creek; Cabin Creek, Hughes Creek; Paint Creek, including 3 bridges; Field Creek road. See Financial News Columns.

W. Va., Charleston—Kanawha County Court, R. N. Moulton, Clk., receives bids Sept. 12 for 10 roads, and bridges: Gravel Paint Creek road, ½ mi. from Gallagher Bridge to south end of Livingston, and 8.45 mi. from Standard Bridge to Fayette County line; .87 mi. grading, draining, Pot Branch road; 1.2 mi. grading, draining, Allens Fork road; 36 mo. Sulphur Spring to North Pinch road; 1.36 mi. Sulphur Spring to North Pinch road; 3.16 mi. grading, draining, Aarons Fork to Weatherwood road; 1.38 mi. grading, draining, Big Tyler Mountain road;

4 mi. grading, draining, Kanawha Two Mile road; conc. substructure, Kanawha two Mile Bridge; .6 mi. grading, cement conc. paving, Wolf Pen Branch road; .6 mi. grading, draining, Woodward Branch road; 1 mi. gravel, Campbell Creek road; .57 mi. cement conc. Louisa Heights-Coal Hollow road; Conrad M. Ross, County Road Engr.

W. Va., Hinton—State Road Comn., Charleston, and Summers County Court, John M. Carden, Clk., receive bids Oct. 1 for 6 mi. grading, draining, Brooks-Sandstone road.

W. Va., Hinton—State Road Comn., George E. White, Sec., Charleston, receives bids Sept. 17 for 2 mi. bit. macad. Bellepoint-Hilldale road, Summers County.

W. Va., St. Marys—Pleasants County Comms., R. E. Griffin, Clk., plan expending \$60,000 for roads in Union Road Dist. See Financial News Columns. 7-25

W. Va., Sweetsprings—State Road Comn., Charleston, considering plans to improve highway, Monroe County, from Virginia State line through Sweetsprings.

#### Contracts Awarded

Ala., Gadsden—Scott & Fischer, Medical Bldg., Owners, let contract to Ed Cochran, about \$25,000, for paving, sidewalks, curb and gutters in Etowah Heights.

Ark., Benton—Bd. of Comms., Street Improvement Dist. No. 2, W. J. Cox, let contract to Phoenix Construction Co., Fort Smith, \$24,798, to grade, drain, curb, gutter, and 13,800 sq. yd. conc. paving; Lund Engineering Co. Home Insurance Bldg., Little Rock.

Ark., Osceola—Ellis & Lewis, Pyramid Life Bldg., Little Rock, have contract, \$275,721, for 37 mi. gravel over southwest corner, Mississippi County.

Ark., Springdale—McEachern & Luke Construction Co., Home Insurance Bldg., Little Rock, have contract, \$25,000, for grading, curbing, and 9,950 sq. yd. conc. paving, Improvement Dist. No. 7.

Fla., Jacksonville—Duval County Comms., let contract to Walter J. Bryson Paving Co., W. Fourteenth St., \$55,289, to pave 7 mi. State Road, No. 1.

Kentucky—State Highway Comn., Frankfort, let contracts to Kentucky Road Oiling Co., Frankfort, for 2 roads in Hart County; 19.823 mi. stone retreading, Glasgow-Hodgenville road, Balltown to Larue County line, \$23,559; 9.811 mi. bit. retread, using refined tar, Glasgow-Hodgenville road, Larue County line to Canmer, \$19,904; J. S. Watkins, State Highway Engr. 7-11

Kentucky—State Highway Comn., Frankfort, let contract for 11.283 mi. creek gravel, Jackson-Hazard road, Breathitt County, Hart & Blair, Whitesburg, \$69,600. 8-22

La., Bossier City—City let contract to Natin & Murtichaw, Homer, \$7,785, for rein. conc. paving and improving Arcadia St., Coleman to Levee Ave.; Chas. D. Evans, Const. Engr., 4508 Glenmorris Blvd., Shreveport. 7-25

La., Winnfield—City let contract to R. L. Young, Bastrop, \$57,361, for 1 mi. paving, Maple, Pineville, Main and Jones St.

Miss., Flora—City, Mayor and Bd. of Aldermen, let contract to J. W. Clark, Jackson, Miss., for about 2 mi. street paving.

Miss., Laurel—City, Mayor and Bd. of Aldermen, let contract to Wright Construction Co., 3001 5th Ave., Meridian, about \$35,000, to surface Kingsdon St., with conc., Second to Meridian; Eighth St. Sixth to Seventh; resurface Boulevard with bit. limestone on conc. base. 8-15

Miss., Laurel—City let contract to Rice Construction Co., Meridian, \$35,000, for gutter, curbing and sidewalks.

Mo., Clayton, St. Louis—St. Louis County Comms., Walter E. Miller, Clk., let contract to M. J. Davidson, Jr., Title Guarantee Bldg., \$45,088, to improve Maramec Station road; Roy Jablonsky, Highway Engr. 8-1

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, let contract to O'Connor Bros. Construction Co., Hall Bldg., \$26,158, for 8-in. conc. paving, Oak St., Fifth to Fifty-second; to Boyle Construction Co., 7601 Myrtle St., for 8-in. conc. on Sixtieth St., South Benton to Agnes Ave. 8-15

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, let contract to J. O. Patterson, to rebuild old base and lay 4-in. paving brick top on Twentieth St., McGee road to Cherry St., cost \$15,793; to Missouri Sidewalk Co., for 8-in. curb on Twentieth St., McGee to Oak; T. P. Thomson, 3908 Forest Ave., for \$36,980, for 8-in. conc.

paving, and 6-in. curb, Cherry St., Twenty-seventh St. to McGee road; J. L. Miller, paving, College Ave., Twenty-sixth Terrace to Twenty-seventh St.; Weaver Construction Co., \$5,581, pave White Ave., Winner road to Ninth St.

Mo., Kirksville—City Council let contract to J. C. Weaver, to widen streets around public square and for curbing.

Mo., Joplin—City, O. P. Mahoney, Commr. of Streets, let contract to Charles DuBoise, \$1.90 per sq. yd., for conc. pavement on Annie Baxter Ave., Twentieth to Twenty-second St.; conc. pavement in alley between Hampton and Islington Place, Moffet to Sergeant Ave. 8-22

N. C., Asheville—Buncombe County Comms., let contract to Perry-Alexander Co., Asheville, for 3.75 mi. grading, gravel surfacing, etc., Concord road. 8-18

N. C., Newton—Town, Loy E. Sigmon, Clk., let contract to Boyd & Goforth, Charlotte, for street, sewer and water improvements; sold bonds.

Okla., Heavener—Highway Construction Co., Daniels Bldg., Tulsa, has contract, \$34,662, for 8 blocks paving.

Okla., Oklahoma City—City, E. M. Fry, Mgr., let contract to Western Paving Co., Petroleum Bldg., to widen Broadway, Thirtieth to Twenty-third St.

Tenn., Huntingdon—Southern Paving & Construction Co., Volunteer Life Bldg., Chattanooga, has contract to pave 12 mi. Highway No. 1, Huntingdon, Carroll County, to Benton County line.

Tenn., Jackson—City, R. L. Balch, recorder, let contract to Yandell & Conger, \$28,600, for 10,750 sq. yd. conc. surface, 8,320 ft. conc. curb and gutter; brick paving.

Tenn., Memphis—Lawrence Construction Co., 213 Lamar Bldg., Jackson, Miss., has contract for 9 mi. conc., State Highway No. 14, Shelby County, between Memphis and Mississippi State Line.

Tenn., Nashville—W. F. Bowe, Jr., 536 Reynolds St., Augusta, Ga., has contract, \$85,428 for 3.2 mi. paving, Nolensville pike, approaching Nashville city limits. 7-25

Tenn., Selmer—McNairy County, J. E. Hodges, Chmn., let contract to B. C. George Construction Co., \$66,668 for 16 mi. grading and bridges, Highway No. 5, from point south of Selmer to Hardeman County line, through Guys and Chewalla.

Tex., Amarillo—Potter County Comms., Sam B. Motlow, Judge, let contract to Zempier Construction Co., Amarillo, \$10,105, to pave East Third Ave. from city limits to Refinery road; 20-ft. wide asphalt and rock combination, 1,000 ft., curbing, and bridge extension; J. W. Ryder, County Engr.

Tex., Barstow—City let contract to Devlin Engineering Co. to pave Main St., from Ward County courthouse.

Tex., Corsicana—Navarro County, C. Nash, County Judge, let contract to F. P. McElwath, Corsicana, \$99,377, for 4 mi. 18-ft. conc. Corsicana-Elmhouse lateral road, work to start immediately; McClendon & Purnell, Engrs. 8-8

Tex., Denton—City, W. N. Harris, Engr., let contract to Jagoe Construction Co., Denton, to pave with rock asphalt on rein. conc. base, East McKinney St.

Tex., Gainesville—City, H. Turner, Sec., let contract to Jagoe Construction Co., Denton, \$133,021, for 30,000 sq. yd. 2½-in. vitrified brick surface on 5-in. conc. base; J. B. McCrary Co., Engrs., Atlanta, Ga. 8-8

Tex., Highland Park, Dallas—City Council let contract to Southern Paving Co., Allen Bldg., Dallas, for rock asphalt surface on 9 streets, including Oxford, Eton, Byron; R. B. Thomas, City Engr.

Tex., Houston—Sidney F. Mitchell, Houston, has contract to shell shoulders along Houston-Galveston Highway between Genoa and Webster.

Tex., Houston—City, Walter E. Monteith, Mayor, let contract, conditionally, to Gulf Bitulithic Co., 701 Foster Bldg., to pave South MacGregor Dr. from Riverside Bridge to Southland Terrace; city appropriated \$69,500; H. L. Shaw, City Engr.

Tex., Taylor—City Comn. let contract to Brown & Root, Georgetown, 65 cents per sq. yd. for 15,000 sq. yd. topping on Georgetown road.

Tex., Waxahachie—Ellis County Comms., Court G. A. Neal, County Auditor, let contract to McClung Construction Co., Cleburne, for double bit. treatment, 4¼ mi. Waxahachie-Palmer road, Road Dist. No. 8; A. R. Stout, County Judge. 8-1

#### Sewer Construction

**Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.**

Ala., Birmingham—M. G. Harris, 452 S. 15th Place, S. W., has contract for sanitary sewer 34th St. and 12th Court. S. and A. H. Dimijian, sanitary sewer Sixteenth St. and Ave. G, Ensley.

Ala., Jasper—City, reported, plans \$20,000 sewage improvements.

Ark., Mansfield—See Water Works.

Ark., Monette—See Water Works.

Ark., Pine Bluff—City, Sewer Dist. No. 24, reported, plans sewers in James and Simpson's Additions.

Ark., West Helena—L. L. McEachin Const. Co., Home Ins. Bldg., Little Rock, reported, has contract for sewers and disposal plant.

Ark., Wynne—City, reported, plans sewer addition.

Fla., Miami Beach—City receives bids Sept. 4 for sanitary sewers. See Want Section—Bids Asked.

Ga., Atlanta—Bond Comsn. approved sewer projects on Connelly St., White St. trunk sewer extension, Rosedale Ave. storm sewer, Barnett St. storm sewer, etc.

Ga., Jonesboro—J. B. McCrary Engineering Corp., Citizens & Southern Bk. Bldg., Atlanta, contractors for sewerage system, let following contracts for materials: Sewer pipe, Shearman Concrete Pipe Co., 928 Rose Circle, S. W., Atlanta; castings, Thomasville Iron Works, Thomasville; cement, W. H. Turnipseed, Jonesboro; lime, Mott Southern Co., Peter St., Viaduct, Atlanta; rebar, steel, Kalman Steel Co., Candler Bldg., Atlanta; brick, Standard Brick & Tile Co., 460 Broadway, Macon; c. l. pipe, U. S. Pipe & Foundry Co., Birmingham, Ala. 8-22

Fla., Miami—Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago, has contract for pumping equipment for sewer work in Shenandoah and Bryan Park Additions.

Ky., Catlettsburg—City, Gardner B. Ewing, Clk., receives bids Sept. 2 for sanitary sewer. See Want Section—Bids Asked.

La., Arcadia—R. L. Myers Const. Co., 605 Carter Bldg., Hattiesburg, Miss., reported, has contract for 34,000 ft. tile sewerage system, disposal plant; cost \$35,268.

La., New Orleans—Sewerage & Water Bd receives bids Oct. 16 for contract 202-S, furnishing pumps for sewer stations Nos. 16, 17, 18 and B.

La., New Orleans—J. H. Murphy Iron Works, 700 S. Broad St., furnishing riveted steel pipe for drainage system.

Md., Baltimore—Bd. of Awards receives bids Sept. 3 for storm drains, Storm Water Cont. No. 132. See Want Section—Bids Asked.

Md., Baltimore—Bd. of Estimates has plans and is receiving bids to be opened Sept. 3 for trunk storm water drains in vicinity of Canton Co.'s property, south of Baltimore & Ohio R. R. and Pennsylvania R. R. and vicinity of Broening Highway; cost \$110,000.

Md., Cumberland—City receives bids Sept. 3 for storm sewers. See Want Section—Bids Asked.

Md., Easton—Easton Utilities Comsn., receives bids Sept. 16 for sewer extension. See Want Section—Bids Asked.

Md., Thurmont—City voted electric light bonds; Frank L. Cady, Mayor. 8-1

Miss., McComb—City, Xavier A. Kramer, Mayor, reported, plans improving Town Creek sewers.

Mo., Chaffee—City has plans in progress by C. E. Smith & Co., Engrs., Railway Exch. Bldg., St. Louis, for sewer and water lines; \$60,000 bonds available. 8-22

Mo., Kansas City—McGraw Construction Co., has contract at \$130.51 for Fairland Park sanitary sewer; Brown Brothers, 1913 Pasco St., at \$12,925 for laterals east of Oak St.; McGraw Construction Co., for storm sewer in Brooklyn Ave., and storm sewer in Leeds; John Spiteaufsky, 2452 Benton Blvd., for sanitary laterals Lylla Ave.

Mo., Springfield—City soon call for bids for sewer; Sam R. Fisher, Engr. 5-30

Mo., St. Louis—Bd. of Public Service receives bids Sept. 10 for sewers within Hamilton Ave. joint sewer district.



Mo., Washington—City, L. H. Schroeder, Mayor, plans sewers in District No. 27.

N. C., Burlington—See Roads, Streets, Paving.

N. C., High Point—A. H. Guion & Co., W. Main St., Gastonia, has contract at \$171,000 for sewer disposal plant Morris Machine Works, Baldwinville, N. Y., contract for sewage pumps; Wm. C. Olsen, Inc., Consit. Engr., 15 Exchange Place, Raleigh.

N. C., Newton—See Roads, Streets, Paving.

Okla., Frederick—City, reported, has preliminary plans by Benham Engr. Co., Perrine Bldg., Oklahoma City, for \$30,000 outfall sewer line.

Okla., Mountain Park—City, reported, plans \$25,000 sanitary sewer system; A. B. Carson, Engr., Norman.

Okla., Oklahoma City—City soon receive bids for storm sewers in Laird and Kate Aves., Dist.; cost \$400,000; Benham Engr. Co., Perrine Bldg., Consit. Engrs.

Okla., Taloga—City plans sanitary sewer system; cost \$25,000.

S. C., Anderson—City considering bond issue for sewers. See Financial News Columns.

Tenn., Lawrenceburg—City votes Oct. 4 on \$125,000 sewer bonds.

Tenn., Memphis—F. D. Harvey, 688 S. Bellevue St., reported, has contract for sanitary sewers.

Tex., Austin—City, Adam R. Johnson, Mgr., receives bids Sept. 5 for sanitary sewer intercepting main, including pipe line, inverted siphon under Colorado River west of Congress Ave. bridge and under Colorado River east of bridge, Bartons Creek, etc.; H. R. F. Holland, Consit. Engr.

Tex., Fort Worth—Purvis & Bertram, 112½ W. 9th St., reported, low bidder at \$12,000 for extension Ninth St. storm sewer.

Tex., Kenedy—City, John W. Thames, Mayor, receives bids Sept. 24 for extension to sewer system; Hasie Engineering Co., Engrs., 310 Burt Bldg., Dallas.

Tex., Pasadena—City voted \$45,000 sewer bonds. 7-25

Tex., Tyler—City soon let contract for 18-in. and 25-in. sanitary sewer outfall lines.

W. Va., Parkersburg—City receives bids Sept. 3 for storm sewers. See Want Section—Bids Asked. 8-22

W. Va., Princeton—City has had surveys made by J. P. Blundon, Sanitary Engr., Sistersville, for sewers. 4-25

### Street Railways

La., New Orleans—New Orleans Public Service tearing up circles and street intersections traversed by street cars for preliminary work on changing gauge of St. Charles and Tulane belt lines; repave Barronne St.; Lee Circle to be completely encircled by tracks; expend about \$500,000.

### Telephone Systems

Fla., Jupiter—Mackay Radio & Telegraph Co., A. Y. Tuel, Gen. Mgr., 67 Broad St., New York, acquired site for radio station to enlarge ship-to-shore and shore-to-ship service.

Fla., Tampa—Postal Telegraph-Cable Co., 253 Broadway, New York, S. W. Webb, Local Mgr., let contract to Flagler & Watson, Inc., 608 Tampa Ave., Tampa, for remodeling building 406 Franklin St., costing about \$100,000; Tampa Show Case Co. has contract for mahogany counter and other fixtures, costing about \$10,000; to be complete within 60 days; F. J. Kennard & Son, Archt., 303 Zack St. 3-7

Ga., Atlanta—Atlanta Journal authorized to increase radio station's sending power, 1000 to 10,000 watts; construct sending plant near city.

Ky., Benton—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., acquired Home Telephone Co.; merged companies to occupy new building to be erected; E. B. Whitehead to be manager.

La., Bastrop—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., let contract to W. C. Salley, Ouachita Natl. Bank Bldg., Monroe, for \$15,000 exchange, Cherry and Vine St.; 1-story.

La., Mansfield—T. B. Herndon applied to Federal Radio Comm. for authority to operate 100-watt broadcasting station; maintain 3 studios.

Mo., Kansas City—Southwestern Bell Telephone Co., I. R. Timlin, Archt., 1010 Pine St., plans building, Oak and 15th Sts.; 6 or 7 stories in height; initial expenditure

of \$2,000,000; house long distance apparatus for Southwest; part of 5-year \$45,000,000 development program.

N. C., Asheville—Southern Appalachian Telephone Co., capital \$500,000, incorporated; J. H. Smith, E. W. Orzen.

N. C., Greensboro—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., soon let contract for \$370,000 central office, cost approx. \$965,800 including land, equipment, etc.; excavation start in September; 92 x 138 ft., 4 stories and full basement, foundation for 6, brick, steel, limestone trim, rein. conc.; central office equipment to be step-by-step dial type, costing \$384,500; install toll office equipment, toll switchboard consist of 50 operators' positions of No. 3 type, installation, including associated apparatus cost \$125,000; install underground conduits, cables, poles and miscellaneous materials in outside plant; expend \$90,000 for major line plant extensions.

N. C., Winston-Salem—L. F. Waldrop & Co., Rock Hill, S. C., has contract for heating and plumbing work for telephone building, Fifth St., of Southern Bell Telephone & Telegraph Co., Atlanta, Ga.; Barge-Thompson Co., Gen. Contr., 136 Ellis St., N. E., Atlanta, Ga.; Marye, Alger, & Vinour, Archt., Forsythe Bldg. 8-22

Tex., Dallas—Southwestern Bell Telephone Co., B. D. Hull, let contract to Henger & Chambers Co., Dallas Natl. Bk. Bldg., on cost plus basis for \$1,000,000 exchange; 4-story and basement, designed to ultimately be 12 stories, struc. steel, conc., brick, 240 x 80 ft.; excavation let to Dallas Transportation Co., 817 Bourbon St., 15,000 cu. yd.; \$50 tons struc. steel, McClintic-Marshall Co., 1010 Pine St., St. Louis, Mo., and Pittsburgh, Pa.; struc. steel erection, Petroleum Iron Works, Petroleum Bldg., Houston; construction just starting; W. J. Knight & Co., Engr., Wainwright Bldg.; I. R. Timlin, Archt., Telephone Bldg., both St. Louis, Mo. 3-28

Tex., Galveston—Texas Broadcasting Co., capital \$10,000, incorporated; W. L. Farnsworth, 1812 P St.

W. Va., Summersville—Chesapeake & Potomac Telephone Co. of W. Va., Charleston, negotiating to acquire Gauley Telephone Co.; joint petition filed with Interstate Commerce Comm.

### Textile Mills

Ala., Anniston—H. K. Regar & Sons, Inc., 21st St., reported, removed machinery and equipment from plant at Bridgeport, Pa., to here. 5-9

Ala., Gadsden—Chamber of Commerce, reported, negotiating with outside capitalists for broad silk mill.

Ala., Huntsville—S. Seidman's Son, 137 W. 25th St., New York, reported, signed contract with Huntsville Chamber of Commerce for consolidation of 4 plants in W. Huntsville Cotton Mill building; machinery being shipped; manufacture cotton, rayon, horsehair braids; company operates plants in New York City, Union City, N. Y. and Brooklyn; local capitalist subscribed \$40,000 in preferred stock; Wm. Seidman, Treas. and Gen. Mgr., in charge work. 7-4

Ga., Columbus—Fullweek Hosiery Mills, L. C. Watkins, Treas., establish seamless half hose plant. 7-11

La., New Orleans—Alden Mills, 2308 Chartres St., reported, let contract at \$11,000 to Lionel F. Favret, Louisiana Bldg., for 1-story, brick, hosiery mill on Decatur St.

Miss., Gulfport—La Dew-Casey Engr. Co., Inc., 833 Howard Ave., New Orleans, La., has contract at \$11,227 for sprinkler system for Walcott-Campbell Spinning Co.'s plant. 8-22

Miss., Laurel—Industries Committee of Chamber of Commerce, B. A. Schneider, Chmn., reported, negotiating with outside capitalists for establishment of hosiery plant.

N. C., Burlington—Fad-Craft Hosiery Mills, Inc., capital \$100,000, incorporated; L. A. and W. C. Brown.

N. C., Greensboro—J. Bynum Merritt, of Iselin-Jefferson Co., 328 Broadway, New York, reported, acquired stock in Southern Silk Mill; company has increased capital to \$500,000; considering plans for additional plants; install equipment for throwing silk.

N. C., Laurinburg—Bd. of Directors of Scotland Cotton Mill, Waverly Cotton Mill Co., Dickson Cotton Mill and Prince Cotton Mill Co., approved merger; stockholders will vote on September 12; plan is to consolidate all mills under name of Waverly Mills; mills to be under management of Jas. Long, Roxboro; plan improvements.

N. C., Rosemary—Fiske-Carter Construction Co., Masonic Temple, Greenville, S. C., general contractors for Rosemary Mill addition, placed following sub-contracts: Cement, Halifax Builders Supply Co., Halifax; steel sash, doors, operating device, etc., David Lupton's Sons Co., Bona-Allen Bldg., Atlanta, Ga.; roofing and sheet metal, J. A. Piper Roofing Co., 116 W. Court St., Greenville, S. C.; grading, Wylie Bros., Spartanburg, S. C.; lumber, R. L. McLeod & Son, Laurinburg; brick, Grant Brick Works, Weldon. 8-15

S. C., Anderson—Gluck Mills expanding capacity of carding department, 40x120 ft.; also install sewer system in mill village, cost \$15,000.

S. C., Greenville—Union Bleachery, Buncombe Rd., plans enlarging floor space of plant; install new equipment from time to time; soon award construction contracts.

S. C., Rock Hill—Rock Hill Printing & Finishing Co., reported, install additional stocking machines. 8-15

S. C., Spartanburg—Fairforest Finishing Co., reported, let contract to Brooks-Fisher Co., Candler Bldg., Atlanta, Ga., for setting boilers at plant; turbine driven centrifugal pump purchased from Gould Pump Co., Seneca Falls, N. Y., through Montgomery & Crawford, 121 W. Main St., Spartanburg; reciprocating boiler feed pump from Worthington Pump & Machinery Co., Harrison, N. J., through Spartanburg Mill Supply Co., 218 Ezell Ave. 8-1

Tenn., Knoxville—Knoxville Knitting Co., 10th St., reported, install 30 knitting machines, purchased from Artus Knitting Co., Bristol, Va.

Tex., Dallas—Hearing will be held on Sept. 7 in Judge T. A. Workis, 68th District Court, on reorganizing C. R. Miller Mfg. Co. under name of Texas Textile Mills, Inc.; properties include mills at Dallas, McKinney and Waco, approximately 43,000 spindles, and subsidiary plants at Nuevo Laredo, Mexico, and Chattanooga, Tenn., and twine mill at Waco. 3-7

Va., Orange—Orange Building Corp., capital \$50,000; Daniel L. Porter, Pres.; operate silk mill.

### Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Gadsden—City let contracts for addition to water works to following: W. L. Harwell, 4407 Hills Ave., Tampa, Fla., at \$24,681; Buford, Hall & Smith, Atlanta, Ga., at \$5011; Roberts Filter Co., Darby, Pa., at \$2140; Boyce & Co. Gadsden, at \$8211; R. D. Cole & Co., Newnan, Ga., at \$2145; work include installation of 500,000 gal. storage reservoir, 500,000 and 300,000 gal. clear well, 500,000 gal. washer tank, 3 electric pumps, etc. 8-15

Ark., Cotton Plant—Southwestern Sewer Co., Dallas, Tex., reported, has franchise to construct water and sewer plant; Hugh H. Carter, Engr., Exchange Bank Bldg., Little Rock.

Ark., Holly Grove—Harvey Improvement Co., Memphis, Tenn., reported, has contract for water works improvements.

Ark., Mansfield—City, reported, plans water works, pipe lines and sanitary sewers; cost \$75,000; W. L. Yowell and C. W. Evans, Committee.

Ark., Monette—City, John Hancock, Mayor, voted water and sewer bonds; A. C. Moore, Engr., Joplin Natl. Bank, Joplin, Mo.

Ark., Monticello—City plans voting on bonds for water works addition; E. E. Bonewits Co., Engr., Home Ins. Bldg., Little Rock. 8-1

Fla., DeFuniak—Peoples Water Service Co. incorporated; D. S. Gillis, W. E. Bryant.

Ga., Brunswick—Peoples Water Service Co., lately incorporated by W. F. Barnes, 3603 Norwood Blvd., Birmingham, Ala., reported, to acquire water plants in Georgia, South Carolina, Mississippi and Florida, including plants at Walterboro, Beaufort, Allendale, Barnwell, Williston, St. George, all of South Carolina; DeFuniak Springs, Fla.; Cornith, Booneville, Baldwin and Poplarville, Miss. 7-25

Ga., Sycamore—J. B. McCrary Engineering Corp., Citizens & Southern Bk. Bldg., Atlanta, advises water works system at Sycamore has been installed. 8-22

## FIRE DAMAGE

Ky., Cloverport—Howard K. Bell, 727 McClelland Bldg., Lexington, has franchise; expend \$75,000 for water system; has preliminary plans; install 2, 4, 6 and 8-in. c. i. pipe; deep well supply without treatment; two 250 gal. p. m. deep well pumps and two 250 g. p. m. intake pumps, etc. 8-22

La., Dubach—City votes Sept. 10 on water works bonds.

La., Lafayette—City receives bids Sept. 20 for furnishing materials, equipment for construction of filtration plant, repairs to pumps, etc. See Want Section—Bids Asked.

La., New Orleans—J. B. McCrary Co., Citizens and Southern Bldg., Atlanta, Ga., has contract for laying pressure mains in Florida Ave. 8-22

La., Shreveport—City, L. E. Thomas, Mayor, reported, considering water plant on Cross Lake, capacity 8,000,000 gal. daily; may issue bonds.

Md., Annapolis—Annapolis Water Co. receives bids Sept. 16 for constructing filter and pumping station building. See Want Section—Bids Asked.

Md., Baltimore—Ligon & Ligon, 3310 Ridgewood Ave., low bidders for trench excavation on Holabird Ave., preliminary to laying mains to Western Electric Co. Point Breeze plant.

Md., Baltimore—Bd. of Awards receives bids Sept. 3 for excavating trenches and laying mains Leland Ave. See Want Section—Bids Asked.

Md., Baltimore—Bd. of Awards receives bids Sept. 3 for excavating trenches and laying water mains. See Want Section—Bids Asked.

Miss., Fulton—National Cast Iron Pipe Co., Birmingham, Ala., reported, has contract for 200 tons pipe. 8-22

Miss., Utica—Town, R. V. Currie, Clk., receives bids Sept. 3 for drilling deep well, pump, etc.

Mo., Sweet Springs—City, J. J. Smith, Mayor, plans improvements and extensions to water works.

N. C., Newton—See Roads, Streets, Paving.

Okla., Aline—Benson & Farrar, Guthrie, reported, has contract for water works improvements.

Okla., Boise City—City, reported, plans water works extension; H. A. Warner, Engr., Amarillo, Tex.

Okla., Maud—Standard Paving Co., 2119 E. 11th St., Tulsa, has contract at \$68,000 for water works extension.

Okla., Meeker—City, reported, extend water works; C. A. Wood, Engr., Stillwater.

Okla., Mountain Park—City expend \$20,000 for water works; A. B. Carson, Engr., Norman.

Okla., Taloga—City, reported, plans \$25,000 water works improvements.

S. C., Anderson—Southern Public Utilities Co., 420 S. Church Ct., Charlotte, N. C., reported lay fire mains in North Anderson.

S. C., Barnwell—G. D. Ryan, representing Ryan Engineering Co., 108 Arcade Building, Columbia, reported, negotiating for lease of city water plant; city votes soon on franchise.

Tenn., Wartrace—City, reported, plans complete water works; cost \$40,000. 8-15

Tex., Colorado—City has option on site for additional water supply.

Tex., Edna—City plans water works; cost \$35,000; W. M. Fooshee, Engr., Paris; may vote on bonds.

Tex., Pasadena—City voted \$38,000 water works bonds. 7-25

Tex., Port Arthur—City lay 6-in. water main across canal; W. O. Bower, City Engr.

Tex., San Angelo—West Texas Utilities Co., Abilene, expend \$10,000 for water main and electric extension in Westland Park, extend distribution system in Jayton, etc.

Tex., University, Sta., Dallas—City Comsn., considering increasing water supply; expend about \$50,000; George Duren, City Engr.

### Woodworking Plants

Mo., Kansas City—Levin Bros., Minneapolis, Minn., establish branch plant in fall, building, Fifth and Washington St., 30,000 sq. ft. floor space, for manufacturing high grade upholstered furniture.

N. C., Walnut Cove—Walnut Cove Veneer Co. adding 50% floor space and installing dryer.

Tex., Marshall—Wood Products Co., capital \$23,550, incorporated; W. L. Pitts, N. P. Turner.

Ala., Gadsden—Tennessee Plumbing & Electric Company's shop, destroyed by fire; Fred Harper, Mgr.

Ark., Fort Smith—Mitchell & Mitchell Mfg. Co.'s bed spring manufacturing plant, N. First St.; loss \$25,000.

Ark., Little Rock—Bulman Furniture Co.'s building, 617 Main St.; loss \$50,000.

Ark., Little Rock—Rooming house, Cross St., occupied by Mrs. E. L. Darragh.

Ark., Little Rock—Dwellings, 4619-17-15 and 4607 W. 21st St., occupied by John Clark, Jimmy Dorthy, Fred Coleman, and Kate Strand.

Fla., Lake Wales—Hillcrest Lodge on shores of Crooked Lake, owned by C. J. Forbes, Cleveland, O.; loss \$30,000.

Ga., Nashville—Fisher Gaskin's building occupied by M. Bonnett's dry goods store, J. M. Harvey, Judge W. R. Smith; loss \$30,000.

Ky., Greensburg—W. W. Williams' planing mill; loss \$25,000; Hicks & Durham's lumber warehouse.

Ky., Mayfield—First Christian Church building; dwellings owned by N. A. Hale and R. B. Bradley.

La., Agurs—Paper house of New York Iron & Metal Co., I. Schultz, Prop., Market St.

La., Monroe—L. L. Lieber's 2 warehouses; loss \$10,000.

La., Mooringsport—Two residences owned by J. D. Green; one residence owned by M. A. Stanton.

La., Natchitoches—Avoyelles Wholesale Grocery Co.'s store, J. C. Efurud, Mgr.; loss \$100,000.

La., Saint Martinville—Residence owned by J. C. Bienvenu; loss \$7,500.

Md., Annapolis—Colonial home near Owensville, Anne Arundel County, owned by Mrs. Alexander Murray; loss \$30,000.

Md., Chase—Methodist Parsonage; Rev. Archer.

Md., Colora—Canning plant of G. J. Liddell.

Md., Funkstown—Residence of J. T. Tolbert.

Md., Grimes—Barn on farm of Mrs. Sarah Grimes; loss \$10,000.

Md., Silver Spring—Barn of Arthur Cope-

land, Pres. of Copeland Co., 1331 Fourteenth St., N. W., Washington, located at Arco Manor on 7th St. Pike, between Silver Spring and Wheaton.

Miss., Maden—Lumber mill and planing mill of W. M. Shuffield; loss \$15,000.

Mo., Kansas City—William Klugman's garage, 15th St. and Forest Ave.

Mo., St. Louis—Buildings in 6800 block South Broadway occupied by Carondelet News, and Victor Seifert.

N. C., Kings Mountains—Residence of A. T. Bridges; store of W. C. Blackwell.

N. C., Sanford—Residence on Sanford-Jonesboro Highway, owned by C. P. Edwards, Durham.

S. C., Willington—Building at De la Howe State School, J. M. Nickles, Chmn. Bd. of Trustees; loss \$50,000.

Tenn., Fountain City, xville—Dave Walker's residence, Fountain City Ave.; loss \$11,000.

Tenn., LaFollette—Flour mill of Austin Milling Co., owned by Atty. Gen. Jesse Rogers; loss \$20,000.

Tenn., McNairy—School building. Address School Bd.

Tenn., Old Hickory—Stable, boiler and pump station house at "Hermitage," former home of Andrew Jackson; A. J. Baker, caretaker, Ladies Hermitage Association; loss \$10,000.

Tenn., Rogersville—Warehouse of Testerman Motor Co.

Tex., Dallas—Three story rooming house, S. Ervay St., Mrs. J. W. Webb, Proprietor.

Tex., Electra—Residence of I. K. Williams, J. P. Parr and Frank Winston; loss \$50,000.

Tex., Galveston—Majestic Hotel, J. Trammonte, Owner; \$10,000 loss.

Tex., Kenedy—Nixon Gin at Pawnee; loss \$15,000.

Tex., Silverton—Roberts Grain Co.'s elevator; loss \$10,000.

Tex., Waco—Millroom of Central Farm Products Co.; \$25,000.

Tex. Wink—American Glycerine Co.'s building.

Va., Tenn., Bristol—King-Cochrane Bldg., occupied by King-Cochrane Co.'s department store and Model Shoe Store; loss \$135,000; building occupied by Finley Shoe Store, Collins Clothing Store, Clark-Jones-Sheely.

Va., Winchester—C. L. Robinson Ice & Cold Storage Corp.'s packing shed; loss \$20,000.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Association and Fraternal

Ala., Boaz—Ancient Free & Accepted Masons start work about Sept. 1 on temple; lease main floor to Post Office Dept.

Mo., Poplar Bluff—Railroad Y. M. C. A., A. D. Reeder, Sec., advises plans for new building postponed indefinitely. 8-15

Tex., Port Arthur—Salvation Army, Ray Malott, Adjutant, plans building campaign.

#### Bank and Office

D. C., Washington—Club Building Co., Southern Bldg., 15th and Eighth Sts., N. W., has permit for \$90,000 office bldg., 2825 Fourteenth St., N. W.; brick, 7 stories.

La., Monroe—Frank T. Smith, 310 Harrison St., plans \$100,000 office and store building, Tenth and Depot Sts.; 6 or 8 stories, 33x115 ft.; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg. 8-22

Md., Baltimore—Frank B. Cahn & Co., Equitable Bldg., leased section of first floor bldg. adjoining present quarters; remodel; Smith & May, Archts., Calvert Bldg.

Mo., Kansas City—Baltimore Land Co., Clark H. Smith, Pres., 923 Pioneer Trust Bldg., leased property, 11th St. and Baltimore Ave.; 2-story bldg. on site; considering erecting office building.

Mo., St. Louis—L. M. Klein, care of D. R. Harrison, Archt., 1106 Ambassador Bldg., reported, taking bids on 6-story Medical Arts Bldg., S. E. corner Delmar Blvd. and Union St.

N. C., Charlotte—W. H. Twitty, Blandwood Apts., erect \$30,000 office building, N. Fourth St.; 1 story, brick and limestone; C. C. Hock, Archt.

Tex., Corpus Christi—H. G. Sherman, member, Wood-Sherman Construction Co., Inc., 315 Peoples St., receives revised bids Sept. 3 at office Russell Savage, Atty., Guggenheim-Cohn Bldg., for office bldg.; brick, tile and rein. conc., granite, cast stone, metal lath and plaster, 6 stories, 130x50 ft., terrazzo, cement and tile floors, mail chute, metal lath, fire escapes; Hardy & Curran, Archts., Nixon Bldg.; W. E. Simpson & Co., Engrs., Milam Bldg.; Llyad D. Royer, Mech. Engr., Smith-Young Tower. 8-15

Tex., Houston—B. N. Garrett, 114 Main St., remodel and construct Metropolitan Bldg. (same location) for offices; change from timber to rein. conc., add 4 floors and roof garden, fireproof; 42x100 ft., conc. floors and new conc. foundation (no piles), Barrett conc. roof or equal; \$75,000; A. S. Bergendahl, Archt.-Engr., 114½ Main; plans ready about Sept. 2; take bids about Sept. 15. See Want Section—Building Material and Equipment. 6-20



Tex., Laredo—A. M. Bruni, County Treas., received low bid from W. C. Thraillkill, 301 Mandalay Drive, San Antonio, for office building; frame, brick, cast stone, 5 stories with alternate for one additional story, approx. 101 x 58 ft.; Adams & Adams, Archts., Engrs., Real Estate Bldg.; Matthews & Kenan, Smith-Young Tower, both San Antonio. 8-15

### Churches

Ark., North Little Rock—First Baptist Church, reported, taking bids on \$30,000 building, Fourth and Poplar Sts.

D. C., Washington—Elizabet Grad Cemetery, care W. C. Nichols, Archt., 14th St. and New York Ave., erect \$40,000 chapel and sexton's house.

Fla., Fort Myers—Edison Park Methodist Church, C. C. N. on, soon have plans ready for building.

Fla., St. Petersburg—St. Bartholomews Church, Lakeview Ave. and 19th St., Rev. W. D. Dorset, Rector, plans addition to Jr. room.

Md., Annapolis—Trinity M. P. Church, Rev. D. L. Fringer, Pastor, 382 West St., reported, receive bids about Oct. 1 for Church and Sunday School building. 8-15

Md., College Park—Protestant Episcopal Church, reported, receive bids about Sept. 15 for \$60,000 building; H. W. Cutler, Archt., 1800 E St., N. W., Washington, D. C. 7-11

Md., Cumberland—Bethany United Brethren Church, Four and Arch Sts., Rev. John E. Oliver, Pastor, applied for permit to build \$20,000 brick auditorium.

Miss., Union—Presbyterian Church soon have plans ready for general contract bids on 2-story brick addition, 38 x 45 ft.; P. J. Krouse, Archt., M. & W. Bldg., Meridian. 8-1

Mo., St. Louis—Bethlehem Evangelical Lutheran Church, Rev. J. Frenz, 2144 Salisbury St., erect Sunday school building; A. Meyer, Archt., Central Natl. Bk. Bldg.

Mo., St. Louis—Second Presbyterian Church, Taylor Ave. and Westminster Place, Dr. John M. McIvor, Pastor, reported, take bids about Sept. 15 on \$250,000 Sunday school building; brick and rein. conc., 3 stories; LeBaume & Klein, Archts., Compton Bldg.; W. J. Knight, Struct. Engr., Wainwright Bldg. 2-7

Mo., West Plains—First Methodist Church, Rev. H. T. Fort, Pastor, reported, soon receive bids on Church and Sunday School building; E. Hawkins, Archt., McDaniel Bldg., Springfield. 1-31

Okla., Miami—Episcopal Congregation, (colored), Bishop Thomas Cassidy, soon have plans for \$18,000 building; Leonard Bailey, Archt., Colcord Bldg., Oklahoma City.

Okla., Muskogee—Episcopal Congregation, Bishop Thomas Cassidy, (colored), soon have plans for \$10,000 building; Leonard Bailey, Archt., Colcord Bldg., Oklahoma City.

Tenn., Nashville—West End M. E. Church has preliminary plans in progress for 2-story building with basement and tower; conc. steel, stone; Donald W. Southgate, Archt., Stahlman Bldg.

Tex., Beaumont—Westminster Presbyterian Church opens bids about 30 days to remodel church and erect Sunday school; \$100,000 brick, hollow tile, steel joists, 3 stories, tar and gravel roof; furnishings, equipment, etc., \$50,000; Livesay & Wiedemann, Archts., San Jacinto Life Bldg. See Want Section—Building Material and Equipment. 8-22

Tex., Corpus Christi—Following are bidders on \$165,000 church and Sunday school for First Presbyterian Church, bids Sept. 7: On General contract, J. P. Miller & Co., Esperson Bldg., Allan T. Cook & Co., West & Jensen, Second Natl. Bldg., all Houston; Wood Sherman Const. Co., Country Club Place, Daugherty-Nichols & Young Const. Co., Nixon Bldg., H. E. Woodruff, Nixon Bldg., J. A. Walsh, Country Club Place, eGo. H. Belote, Liberty Court Apt., all Corpus Christi; Sumner-Sollitt Co., 448 Cassiano St., San Antonio; on elec. work, Smith Electric Co., 619 Mesquite St., Nelson Electric Co., 1710 Alameda St., both Corpus Christi; Alan T. Cook & Co., Esperson, Corpus Christi Plumbing Co., 925 Staples St., Corpus Christi; Barber Plumbing Co., 1419 aPige St., Warren Plumbing Co., 614 Walker Ave., both Houston; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth.

Tex., Crosby—Unity Baptist Church, J. C. McMinn, member, Bldg. Comm., plans building.

Tex., Del Rio—Del Rio Methodist Church, Rev. Charles Nixon, Pastor, call bids Sept. 19 for \$60,000 auditorium and educational building; brick and hollow tile, height equivalent to 3 stories, part basement; plumbing, heating and electric installation under separate contracts; Ralph H. Cameron, Archt., Majestic Bldg.; W. E. Simpson Co., Engrs., Milam Bldg., both San Antonio. 8-22

Tex., Fort Worth—University Christian Church, J. C. Lockheart, Business Mgr., let excavation contract to Wm. H. Southwell, Ft. Worth Natl. Bldg., Fort Worth, in connection with \$150,000 church building; 3 stories and basement, brick, steel, rein. conc.; W. G. Clarkson & Co., Archts., First Natl. Bk. Bldg. 2-7

Tex., Houston—Woodland Methodist Church, Rev. H. I. Robertson, Pastor, erect \$65,000 building; brick and stone, conc. foundation, 2 stories; Lamar Q. Cato, Archt., Bankers Mortgage Bldg. See Want Section—Building Materials and Equipment. 8-22

Tex., Houston—Antioch Baptist Church, (colored), Dr. B. J. Covington, Chmn. Finance Committee having plans completed for \$150,000 church, West Dallas and Frederick St.; Alfred C. Finn, Archt., Bankers Mtge. Bldg.

W. Va., Clarksburg—First Presbyterian Church, L. M. Sutton, Chmn. Manse Committee, acquired Siers property, 157 E. Main St.; remodel for parsonage; extend later for Sunday School purposes; extend church auditorium to include present Sunday School bldg.

### City and County

Ark., Fort Smith—City, Commr. Earl Henderson, in charge of Fire Dept., to vote on \$182,000 bonds for improving fire dept.; includes general improvements to all fire stations and replacement of Station No. 5, N 11th St.; M. J. Brun, Chief of Fire Dept.

Ark., Jonesboro—Craighead County, A. D. Weems, Judge, votes Aug. 31 on bonds for courthouse, possibly \$250,000. 8-8

Mo., Joplin—City, M. E. Jones, Clk., take bids Sept. 2 for \$20,000 clubhouse, Schiffer-decker Park; 1 story, stone; Smith & Van Pelt, Archts., Joplin Natl. Bk. Bldg.

Mo., Kirkwood, St. Louis—City of Kirkwood receives bids Sept. 4 for erecting new Fire Station No. 2 and for alterations and additions to Station No. 1. 7-2

Mo., West Plains—Howell County votes Sept. 24 on \$125,000 bonds for courthouse. 5-23

N. C., Winston-Salem—Forsyth County, E. T. Hickey, Chmn. Highway Comm., receives bids Sept. 2 for 1-story and basement, "T" shaped mess hall, 226x71x50 ft.; 1 and 2-story, "T" shaped barracks building, 274x81x50 ft.; rein. conc., struc. steel, steel sash, steel doors, steel toilet partitions, lockers, screens, grilles, steel stairs, jail equipment, steel partitions in corridors cyclone fence, tar and gravel roof, \$250,000; structures for prison; Hal Crews, Archt.-Engr., Reynolds Bldg. 7-18

Okla., Seminole—V. V. Long & Co., Colcord Bldg., Oklahoma City, soon complete plans for \$25,000 jail and city hall; 2-stories, brick and conc.; Palmer Noe, City Clk. 8-1

Okla., Wewoka—City Commrs. may call election to sell present city hall and use proceeds for new building.

Tenn., Mt. Pleasant—City Council erect \$10,000 city hall; bonds sold.

Tenn., Nashville—City receives bids Sept. 2 for English type fire station, 21st and Ashwood Aves.; \$10,000, brick, 2 stories, 35x58 ft.; George Waller, Archt., Ind. Bldg.

Tex., Midland—Midland County votes Sept. 21 on \$150,000 courthouse bonds; Voelcker & Dixon, Perkins-Snyder Bldg., Wichita Falls, selected as architects; brick and stone, 4 stories.

Tex., Pasadena—City voted bonds for fire station.

Tex., Waco—City Comm. awarded contract to Christy-Dolph Construction Co., Const. Indus. Bldg., Dallas, at \$187,900 for municipal building; plumbing and heating to Hill Bros., 705 Austin St., Waco; electric wiring to Doyle Electric Co., 704 Austin St., Waco; H. L. Spicer, Archt., Waco. 8-15

Va., Richmond—City, Jas. R. Sheppard, Jr., Dir. of Public Safety, receives bids Sept. 3 for fire engine house, Hanover Ave. and Tilden St.; Carneal, Johnston & Wright, Archts.

### Dwellings

Ala., Good Water—Dr. J. A. R. Chapman erect residence, Main St.

D. C., Washington—Frederick A. Delano has permit for \$14,000 residence and garage, 2254 Decatur Place N. W.; brick, 2 stories.

D. C., Washington—P. J. Grady, Investment Bldg., has permit for 3 dwellings, 3910-14-18 Twenty-first St., N. E.; conc. block, 2 stories; \$15,000.

D. C., Washington—S. G. Lindholm has permit for \$11,000 residence, 3414 Twenty-ninth St., N. W.; brick, 2½ stories.

D. C., Washington—Richard F. Philpitt has permit for 2 dwellings, 7065 Otis St., and 3630 S. Dakota Ave.; frame, 2 stories; \$10,000.

D. C., Washington—John M. King, 1008 11th St., N. W., has permit for 2 frame dwellings, 2400 Newton St., N. E., and 2516 Perry St., N. E.; 2 stories; \$10,000.

D. C., Washington—W. G. Irvin, 5516 39th St., N. W., has permit for 6 brick dwellings, 4300-10 Thirty-seventh St., N. W.; 2 stories; \$36,000.

D. C., Washington—John A. Hunter, 1419 Colb Rd., N. W., has permit for \$12,000 residence, 3312 Northampton St.; brick and tile, 2 stories.

D. C., Washington—Paul Henderson, 3201 Woodland Drive, N. W., has permit for \$22,000 addition, 3201 Woodland Drive, N. W.; brick, 2 stories.

D. C., Washington—Chas. D. Sager, 824 14th St., N. W., has permit for 10 brick dwellings, 554-72 Twenty-third Place, N. E.; 2 stories; \$55,000; owner builds.

D. C., Washington—North Washington Realty Co., E. Brooke Lee, Silver Spring, Md., erect \$25,000 residence and garage, 14th and Upshur Sts., N. W.; 2½ stories, stone; H. W. Cutler, Archt., 1800 E St., N. W. 8-8

D. C., Washington—Mrs. Glen Stewart, Centaur Farms, Easton, Md., reported, erect \$100,000 residence and garage, 16th St., N. W.; 4 stories, stone; G. Oakley Totten, Jr., Archt., 808 17th St., N. W.

Fla., Miami Beach—Mr. Boshirt, care Russell Pancoast, Archt., Lincoln Rd., erect \$35,000 residence, Pine Tree Drive and 52nd St.

Fla., Miami Beach—G. O. Palmer, Palm Island, having plans made by A. Fraser Rose, Archt., and start work about Oct. 15 on \$20,000 residence and 2-car garage, Rivo Alto Island; include patio and fountain.

Ga., Newnan—William Banks awarded contract to Yost Construction Co., Candler Bldg., Atlanta, for \$40,000 residence, Pearl Springs; 2 stories and basement, 193x57 ft., conc. footings, stone tile masonry walls, face brick and stucco exterior, Alabama limestone trim; Kennon Perry, Archt., Mortgage Guaranty Bldg., Atlanta. 8-8

Ky., Louisville—U. S. Engineer Office, P. O. Box 72, receives bids Sept. 17 for six keepers' cottages at Lock and Dam 48, Ohio River.

La., Shreveport—Walter Jacobs erect \$50,000 residence; Clarence W. King, Archt., Giddens Lane Bldg., receiving bids.

Md., Baltimore—Frank S. Dudley filed application with Building Engr. for erection of \$15,000 residence and garage, 5501 Roland Ave.; 2½ stories, stone; H. A. Stilwell, Archt., 206 E. Lexington St.

Mo., St. Louis—Kratz Realty Co., 4067 S. Grand St., plans building program in St. Louis Hills, to include erection of Spanish type bungalows.

N. C., Marion—R. M. Mead, Asheville, N. C., and Cleveland, O., plans \$75,000 to \$80,000 residence, Lake Tahoma near Marion; Mr. Mead and associates to develop 6400-acre reservation. Address owner, care C. A. Chapman, Marion.

Tex., Big Spring—Albert M. Fisher have plans complete about Sept. 1 for 2-story residence; brick veneer, 2 baths; Glenn C. Wilson, Archt., Milam Bldg., San Antonio.

Tex., Dallas—Mrs. Henry Dorsey, Sr., 113 N. Marsalis St., purchased site, 1200 block Lausanne Ave., erect \$25,000 residence.

Tex., Dallas—Dr. J. A. Skillern, 417 E. 9th St., purchased site, 1500 Block Colorado Blvd., erect \$25,000 residence.

Tex., Eagle Pass—Plans being drawn for residences for C. O. Meyers, W. L. Guyler and B. H. Miller.

Tex., El Paso—A. H. Borders plans \$12,500 residence, 3100 block Cooper St.; William G. Wuerhmann, Archt., Two Republics Bldg.

Tex., Frio Town—Cavin Woodward erecting residence on ranch near here.

## Government and State

Ark., Little Rock—Treasury Dept., James A. Wetmore, Acting Supervising Archt., Washington, D. C., soon select site for post office; \$1,435,000 appropriated for site and building. 4-4

Ga., Atlanta—House Committee on Appropriations of Legislature reported favorably on bill providing for \$250,000 repairs and improvements to State Capitol; L. G. Hardman, Gov..

La., Mansfield—Treasury Dept., James A. Wetmore, Acting Supervising Archt., Washington, D. C., selected site, Jefferson & Texas Sts., for \$75,000 post office.

La., Ruston—Geo. F. Lomax, Ruston, has plans ready for general contract bids on 1-story, rein. conc. and brick armory; no date set for opening bids.

## Hospitals, Sanitariums, Etc.

Ark., Hot Springs—Methodist Episcopal Church, Dr. A. C. Millar, Chmn. Hospital Bd. of Little Rock Conference, are conferring with citizens about proposed sanatorium, but have no definite plans; may have receiving unit in city and principal buildings on shore of Lake Hamilton to be created by dam of Arkansas Power & Light Co.

Ark., Little Rock—City voted \$55,000 bonds for hospital.

Fla., Lake Wales—Lake Wales Hospital Assn. has revised plans ready for \$55,000 building; opens bids Aug. 30; George E. Jacobs, Archt., Lake Wales; A. D. Taylor Offices, Woolworth Bldg., Orlando, and 4614 Prospect Ave., Cleveland, Ohio. 8-8

Fla., Pensacola—City, J. Harvey Bayliss, Mayor, considering hospital.

Md., Havre de Grace—Directors of Havre de Grace Hospital started movement for new hospital; estimated cost \$150,000.

Mo., Sedalia—City, J. T. Montgomery, Chmn. Hospital Building Committee, 906 W. Broadway, reported, soon receive bids for \$200,000 hospital; T. W. Bast, Archt., 902 E. Seventh St.; Harry A. Noble, Struc. Engr., Security Bldg., Kansas City; N. L. Nelson, City Clerk. 3-28

Mo., Springfield—State, Dr. James Stewart, Health Commr., Jefferson City, considering establishing hospital for treating trachoma; 50 beds.

Mo., St. Louis—Saint Luke's Hospital, Delmar Blvd. and Belt Ave., Rev. Rufus D. S. Putney, Supt., reported, may take bids about Sept. 15 for \$1,500,000 John Fowler Diagnostic Clinic and Research Laboratory; operating rooms, pathological laboratory, X-ray dept., 100 to 150 beds; LeBaume & Klein, Archts., Compton Building; Russell & Viterbo, Struc. Engrs., Arcade Bldg. 7-18

Mo., St. Louis—Washington University, W. McKim Marriott, Dean, School of Medicine, reported, has low bid from Woermann Construction Co., Syndicate Tr. Bldg., for McMillan Eye, Ear, Nose and Throat Hospital; 11 stories, fireproof, brick and rein. conc.; Jamieson & Spearl, Archts., Arcade Bldg. 8-22

N. C., Mooresville—Lowrence Hospital, Inc., Dr. A. E. Bell, member, Bd. of Managers, having plans drawn by Chas. C. Hook, Archt., Commercial Bk. Bldg., and Walter W. Hook, Asso. Archt., both Charlotte, for \$80,000 hospital, Eastern Heights section. 7-18

N. C., Reidsville—Dr. T. W. Edmunds, Arcade Bldg., has low bid at \$71,696 for hospital, 328 Main St., from P. L. Anderson; rein. conc., brick walls, 3 stories, 138x40 ft.; to be known as Annie Penn Memorial Hospital; Roger B. Davis, Archt., all Danville, Va. 6-20

N. C., Winston-Salem—Bd. of Aldermen, M. D. Stockton, received low bid at \$41,450 from Acme Lumber Co. for nurses' home at City Memorial Hospital; Disher and Katner, low on plumbing; J. L. Powers low on heating; rein. conc. frame, fireproof, brick, terra cotta trim, 4 stories and basement; Northrup & O'Brien, Archts., Starbuck Bldg. 8-15

S. C., Greenville—Greenville County Commrs., A. F. McKissick, Chmn., open bids Sept. 12 for \$150,000 tuberculosis hospital; group of five buildings, masonry bearing walls, wood joists, linoleum and terrazzo floors, comp. roof, conc. foundation, steam heat; Beacham & LeGrand, Archts., Peoples Natl. Bk. Bldg., Greenville, and Asheville, N. C. 6-18

S. C., State Park—South Carolina Grand

Lodge, A. F. & A. M., select A. W. Hambry, Columbia, as architect for \$50,000 infirmary unit, State Park Tuberculosis Sanatorium; Dr. Ernest Cooper, State Park, member, Bldg. Comm., State Bd. of Health. 3-21

Tenn., Knoxville—Richard Lyle, State Commr. of Institutions, completed negotiations for purchase of 765-acre farm, Poole's Bend Rd., for Eastern State Hospital; construct 1-story barracks building to accommodate 100 male patients.

Tex., Galveston—Sealy & Smith Foundation, reported, call bids in Nov. for \$250,000 Nurses' Home at John Sealy Hospital; R. L. White, Archt., University of Texas, Austin. 12-6-28

Tex., Houston—City, Hamp L. Shaw, Engr., soon have plans ready for \$30,000 addition to nurses' home Jefferson Davis Hospital, Joe F. Miller, Supt.; 40 x 60 ft., 3 stories, brick veneer; living quarters on second and third floors, classrooms on first floor.

Tex., Laredo—Sisters of Mercy award contract in about two weeks for third story addition to Mercy Hospital.

Tex., Lubbock—Lubbock Sanitarium, Dr. J. T. Hutchinson, Pres., has plans in preliminary stage for \$65,000 nurses' home; fireproof, 40x120 ft., 4 stories, conc. floors with maple finish, built-up roof, rein. conc. foundation; S. B. Haynes, Archt., 511 Myrick Bldg. 8-15

Tex., Rusk—State Bd. of Control, R. B. Walthall, Chmn., Austin, let contract Sept. 15 for ward building.

Tex., Sonora—Lions Club, Wm. Caldwell, member, Hospital Comm., raising funds for \$15,000 hospital; equipment to be donated by Dr. A. G. Blanton.

Tex., Wichita Falls—State Bd. of Control, R. B. Walthall, Chmn., Austin, let contract Sept. 15 for State hospital.

## Hotels and Apartments

Ala., Mobile—Hilton Hotel Co., C. N. Hilton, Pres., 1933 Main St., Dallas, Tex., reported, having plans drawn for hotel.

Ala., Tallahassee—Tallahassee Inn, Asa Ambriester, erect 40-room addition.

D. C., Washington—Tomlinson Realty Co. erect 5-story, brick and conc. apartment, 1451 Park Road, N. W.; 80 apartments and 190 rooms; Frank Tomlinson, Archt., both 1024 Vermont Ave.; W. Perry, Contr.

D. C., Washington—Hampshire Gardens Development Co., care Shapiro Construction Co., Contr., 1416 Eye St., N. W., has permit for 2-story brick apartments, 222 Farragut St. and 236 Farragut St.; \$40,000; Geo. T. Santmyers, Archt., 1416 Eye St., N. W.

D. C., Washington—Jacob C. Mueller, 908 S. Carolina Ave., S. E., has permit for two 2-story, brick flats, 502-04 Thirteenth St., S. E.; \$14,000.

Fla., Miami Beach—Stone Properties, Inc., erect \$50,000, 1-story and basement, 40 x 40 ft. addition, 8th St. and Washington Ave.; owner builds; B. Kingston Hall, Archt., 125 Sixth St. 5-2

Fla., Miami—Hotel Alcazar, Harry J. Smith, Mgr., soon let contract for \$50,000 improvements; Fred Weiss, Archt.

Mo., Carthage—Drake Hotel Co., R. H. Webster, Sec.-Treas., Rochester, N. Y., remodel 4-story hotel.

Mo., Kansas City—W. E. Macken and T. C. Crummitt, 2121 Erie St., erect 3-story and basement, 100-room hotel, 20th St. and Swift Ave., North Kansas City; 4 shops on ground floor; Fritzen & Hufford, Contrs., S. W. Armour and Erie Sts.; Harry Miller, Archt.

Mo., University City, St. Louis—N. Robuschka, care Harry M. Fine Realty Co., 820 Chestnut St., erect 3-story and basement, 50x77.6-ft., brick and conc., 15-apartment, 6600 Clemens Ave.; terra cotta trim, hardwood floors, built-up roof, vapor heat; Hubert W. Guth, Archt., 813½ Chestnut St.

Mo., St. Louis—J. P. F. Investment Co., care Marcel Boulicault, Archt., Ambassador Bldg., soon let contract for 3-story and basement, 260x91 ft., brick and rein. conc. apartment in Moorland's Addition.

N. C., Asheville—R. M. Mead, Cleveland, Ohio, and associates erect 2-story rustic hotel, Lake Tahoma development; 115 rooms.

N. C., Charlotte—S. H. McDonald erect \$35,000, 2-story brick veneer 8-apartment on East Boulevard.

Okla., Tulsa—Mrs. Maude Parr, 1105 S. Rockford St., let contract to Rundquist Construction Co., for \$30,000, 2-story and basement, 40x80 ft., brick veneer, tile and frame apartment.

Tenn., Knoxville—M. C. Monday, Farragut Hotel, acquired LeCote Marble Co. with quarry near Ebenezer and plant on Scottish Pike.

Tenn., Memphis—Joe Lazarov, 893 Maury St., erect \$65,000, 2-story and basement, brick veneer 16-apartment, 1990 block Lamar Ave.; oak floors, tile roof, steam heat.

Tex., Corpus Christi—Judge H. R. Sutherland, Law Nixon Bldg., representative of syndicate, reported, erect hotel in connection with development of Padre Island.

Tex., El Paso—Hilton Hotel Co., C. N. Hilton, Pres., 1933 Main St., Dallas, reported, negotiating for site for \$1,000,000, 16-story hotel.

Tex., Raymondville—Judge Davis E. Decker purchased Travelers Hotel; remodel and erect addition.

Tex., Wichita Falls—W. T. Willis, Natl. Bank Bldg., has permit for \$35,000 brick veneer apartment, 1601 Tenta St.

## Miscellaneous

Ark.-Tex., Texarkana—Bowie County Fair Assn., J. Q. Mahaffey, Pres., erect main building; work under supervision Baynard Witt, of Witt, Seibert & Halsey, Archts. 6-6

Ark., Fayetteville—Golden Rod Club, Mrs. F. W. Coin, member, contemplates erecting clubhouse.

D. C., Washington—Following applied for permits for market buildings at Union Market Terminal in Patterson tract in North-east Washington: W. Charles Heitmuller, 812 Jefferson St., N. W., three at 1300-03 Fifth street northeast, \$100,000; F. B. Cravo, one at 1320-22 Fifth street northeast, \$20,000; Edward Widmayer, 2942 Bellevue Ter. N. W., one at 1316-15 Fifth street northeast, \$20,000; George C. Heider, 3507 12th St., N. E., one at 1382 Fifth street northeast, \$10,000; W. H. Harrison Co., 909 B St., one at 1328-30 Fifth street northeast, \$20,000; G. Clagett, 517 C St., N. E., one at 1334 Fifth street northeast, \$10,000; E. A. Heitmuller and J. L. Sherwood, Jr., 1021 Newton St., N. E., one at 1310-14 Fifth street northeast, \$30,000; F. Denwood Parrish, 901 B St., N. W., two at 1324-26 Fifth street northeast, \$20,000.

D. C., Washington—Lutheran Memorial Home, Channing and Evans Sts., N. E., erect \$50,000, brick addition; L. M. Leisnering, Archt., 1707 Eye St., N. W.

D. C., Washington—H. C. Folger, of Standard Oil Co., 26 Broadway, New York, reported, having plans prepared by Paul P. Crete, Otis Bldg., Philadelphia, for library, E. Capitol St. near Third St.

Fla., Inverness—Southern Mine & Development Co., Adam Noble, Mgr., owners of Southern Pines, plans addition to clubhouse; also considering erecting 100-room hotel or club, several cottages.

Ga., Savannah—T. A. Furlong, 1013 E. Henry St., is chairman of building committee for \$50,000 home for disabled veterans; site donated.

La., New Orleans—Jacob Schoen & Son, 519 Elysian Fields, plan \$25,000 mortuary on St. Claude Ave. near Elysian Fields Ave.

La., Oakdale—Oakdale Furniture & Trading Co., Inc., erect funeral home on Ninth St.; bungalow type.

Md., Bethesda—Baptist Home for Children, E. Hilton Jackson, Chmn., Bldg. Comm., 904 Newton St., N. E., Washington, D. C., ready for bids about Sept. 15 for two \$65,000, 2-story and basement, stone, hollow tile and stucco dormitories on 40-acre tract, Cabin John Road west of Alta Vista, Montgomery County; slate roofs, semi-fireproof, accommodate 30 children in each building; A. P. Clark, Jr., Archt., 816 Fourteenth St., N. W., Washington. 7-25

N. C., Asheville—R. M. Mead, Cleveland, Ohio, and associates erect private club house, and semi-public club house, Lake Tahoma development.

Tex., Fort Worth—Woman's Club, Anna Shelton, Pres., 1316 Pennsylvania Ave., erect \$11,000, 1-story, 25x43 ft., brick, stone trim club building; Joseph R. Pelich, Archt., W. T. Waggoner Bldg.; bids in.

Tex., Lubbock—T. Sanson, reported, having plans prepared by S. B. Haynes, Myrick Bldg., for \$150,000, 3-story and basement,



65 x 125 ft., brick, stone and rein. conc. recreation building.

Tex., San Antonio—First National Courts, Leo Dillingham and associates, Brady Bldg., purchased John Stevens, Jr., country estate of 30 acres for development as tourist camp; erect 50 bungalows; \$100,000.

### Schools

Ala., Montgomery—State Bd. of Education, Dr. R. E. Tidwell, Supt., receives bids Aug. 31 for 3-story and basement, 96 x 171 ft. dormitory, 2-story and basement, 206 x 104 ft. classroom and administration building and 1-story, 88 x 114 ft. dining hall at State Normal School; \$300,000; rein. conc., brick, cut stone, limestone or cast stone trim, hollow tile partitions, cement, tile and hardwood floors, tar and gravel built-up roof; Warren Knight & Davis, Archts., Protective Life Bldg.; following contractors estimating: Smallman Construction Co., 1109 Fifth Ave., S.; A. J. Honeycutt, Martin Bldg., both Birmingham; L. C. Ellison & Co., Box 400, Ensley; Algernon Blair, Frost Construction Co., both Shepherd Bldg., Montgomery; K. E. Sundberg Construction Co., Mobile.

Ark., Alpine—Clark County Bd. of Education, George W. Garrett, Arkadelphia, erect schools at Alpine and Amity.

Ark., Biggers—City build \$10,000 extension to school.

Fla., Fernandina—Nassau County Bd. of Public Instruction, O. T. Weaver, Supt., receives bids Aug. 31 for school in Deep Creek School Dist.

Ga., Fairburn—M. C. Collins, Sec., receives bids Sept. 5 for new high school; 1 story, solid masonry exterior walls, frame interior, 305 x 57 ft., with wing 42 x 68 ft., conc. and hardwood floors, asphalt shingle roofing; Wm. J. J. Chase, 140 Peachtree St., Atlanta.

Ga., Griffin—Bd. of Education, L. M. Lester, has low bid from Robert Wheaton Sons for \$45,000, 1-story and basement, brick veneer Third Ward Grammar School; Wm. J. J. Chase, Archt., 140 Peachtree St., N. E., Atlanta.

Ga., Tennesse—Bd. of Trustees have plans completed about Sept. 25 for \$50,000 school; 1 story and basement, 12 classrooms and auditorium, brick walls, conc. footings, comp. roof; W. Elliott Wadsway, Archt., Rivoli, Macon.

La., Broussard—Lafayette Parish School Bd., J. W. Faulk, Supt., Lafayette, receives bids Sept. 19 for additions and alterations to 2-story brick school and gymnasium building; separate bids for each building and joint bids on buildings with plumbing and heating separately for brick building; plans from Wm. T. Nolan, Archt., Canal Bk. Bldg., New Orleans.

La., Independence—Tangipahoa Parish School Bd., W. J. Dunn, Sec., receives bids Sept. 4 for school in School Dist. 39.

La., Monroe—Ouachita Parish School Bd., receives bids Oct. 4 for 4-classroom brick school at Logtown.

Md., Baltimore—Bd. of Public Improvements Comsn., H. J. Leimbach, Supv. Engr., ready for bids about Sept. 15 for \$250,000 school at Highlandtown; H. F. Jory, Archt., Munsey Bldg.; Glenmore Ave. School will be next building on which bids will be called; Flournoy & Flournoy, Archts., 206 St. Paul St.

Md., Chevy Chase—Montgomery County School Comsn., E. A. Broome, Sec., Rockville, ready for bids for \$150,000, 3-story, 20-room, brick and stone addition to high school, Chevy Chase Lake Section; also for \$57,000, 3-story, brick high school addition, 44th and Leland Sts., S. E.; H. W. Cutler, Archt., 1800 E St., N. W., Washington, D. C.

Md., Colesville—Montgomery County School Comsn., E. A. Broome, Sec., Rockville, ready for bids for \$16,500, 1-story, brick elementary school; H. W. Cutler, Archt., 1800 E St., N. W., Washington, D. C.

Miss., Bay Springs—Bay Springs Consolidated School Dist. Trustees, H. H. Stringer, Sec., receive bids Aug. 30 for \$20,000, 1-story brick and rein. conc. school; comp. roof; following contractors estimating: Williams & Gilmore, Lena; Currie & Corley, Raleigh; E. S. Tracey; E. E. Carroll, both Gulfport; A. M. Tisdale, Center Bldg., Laurel.

Miss., Bay St. Louis—St. Stanislaus College let contract about Sept. 1 for \$100,000 brick building for study hall, physics and chemistry laboratories, chapel and 17 private rooms; plans by Andrew Montz, City Engr.,

New Orleans; other units planned later include dining room and kitchen, hospital and probably additional dormitories.

Miss., Booneville—Bd. of School Trustees postponed date of opening bids for \$100,000 high school; 1-story, 255 x 148 ft., with 2-story center effect, brick, cast stone trim, built-up comp. roof; N. W. Overstreet, Archt., Miss. Fire Insurance Bldg., Jackson.

Miss., Greenville—School Bd. receives bids Sept. 17 for \$200,000, 2-story, 267 x 125-ft., brick, steel and stone trim E. E. Bass Jr. High School; 11 classrooms, cafeteria, study hall, auditorium to seat 900, gymnasium and home science department, Colonial architecture; plans from N. W. Overstreet, Archt., Miss. Fire Insurance Bldg., Jackson.

Miss., Hazlehurst—School Bd. considering plans for gymnasium for high school.

Mo., Moberly—Bd. of Education, B. F. Self, Sec., receives bids Sept. 9 for \$82,000, 2-story brick West Park grade school; \$81,000, 2-story, brick Jr. High School; \$60,000, 1-story brick East Park grade school; separate bids on heating, plumbing and wiring; plans from W. E. Gillham, Engr., Interstate Bldg., Kansas City; plans for buildings from Ludwig Abt, Archt., 114½ N. Williams St., Moberly.

N. C., Winston-Salem—Salem College, Dr. o'Hard E. Rondthaler, Pres., receives bids Sept. 5 for three dormitory buildings; 4 stories; cost about \$200,000; contractors bidding are: Walter Kidde Co., Inc., Jefferson Bldg.; Angle-Blackford Co., J. L. Crouse, both American Bk. Bldg.; J. R. Owen, 1006 W. Lee St.; George Kane, Jefferson Bldg., all Greensboro; Fogle Bros. Co., 202 Belevs Creek Rd.; Goode Construction Co., Wachovia Bk. Bldg.; Frank Blum & Co., 110 E. Second St., North Eastern Construction Co., Nissen Bldg.; W. H. Fetter, Realty Bldg., all Winston-Salem; Acme Lumber Co., Kernersville; R. K. Stewart, 154 S. Main St., High Point; Gray Concrete Co., Thomasville; U. A. Underwood, Inc., Murchison Bldg., Wilmington; Hobart Upjohn, Archt., Grand Central Terminal, New York.

Okla., Buffalo—Bd. of Education erect \$20,000 school; The Huseman Co., Archt., Chickasha.

Okla., Enid—School Bd. Geo. D. Wilson, Pres., plans \$200,000 high school next year; also grade school and addition to 2 schools; considering election on \$300,000 bonds.

Okla., Hinton—Bd. of Education erect \$13,000 school.

Okla., Martha—School Bd. soon start work on 418 x 152 ft. school building; 16-classrooms, auditorium, gymnasium, library and offices for supt.

Okla., Rosston—School erect \$10,000 school; The Huseman Co., Archt., Chickasha.

Okla., Tahlequah—Legislature appropriated \$60,000 for repairs to administration building, Northeastern State Teachers College; Roy Coppock, member, State Bd. of Affairs, Oklahoma City.

Okla., Wilkins—Bd. of Education erect \$25,000, 1-story, 100 x 100 ft. school; The Huseman Co., Archt., Chickasha.

Tenn., Chattanooga—Taylor University and Clinic of Bio-Psychology, Dr. Wm. Marcus Taylor, plans \$200,000 buildings in connection with establishment of university.

Tenn., McNairy—School Bd. plans brick veneer school to replace burned structure.

Tenn., Munford—Tipton County Bd. of Education, Eugene Younger, Supt., Covington, erect \$30,000, 2-story, 58 x 116-ft. brick veneer, 8-classroom and auditorium high school; Anker F. Hansen, Archt., Shrine Bldg., Memphis; bids in.

Tex., Alpine—Sul Ross State Teachers' College, H. W. Morelock, Pres., receives bids Oct. 9 for \$150,000, 2-story and basement, brick and rein. conc., fireproof library; Trost & Trost, Archts., Two Republics Bldg., El Paso.

Tex., Austin—State Bd. of Control, R. B. Walthall, Chmn., Austin, let contract Sept. 15 for building for colored deaf, dumb and blind school.

Tex., Austin—Bd. of Regents, University of Texas, C. D. Simmons, Sec., approved plans and will let contract Oct. 14 for \$900,000 chemistry building; 4 stories and basement, brick and conc.; Herbert M. Greene, LaRoche & Dahl, Archts., Construction Industries Bldg., Dallas.

Tex., Austin—University of Texas, J. Calhoun, Comptroller, have plans completed for conc. steam tunnel, from present tunnel

to auditorium-gymnasium bldg.; \$40,000 to \$50,000; R. L. White, university archt.

Tex., Commerce—East Texas Teachers' College, S. A. White, Pres., receives bids Oct. 19 for \$200,000, 3-story and basement, brick and rein. conc., fireproof library; W. E. Ketchum, Archt., Pope Bldg., Austin.

Tex., Dennis—Bd. of Education erect 1-story and basement high school; cast stone; Wm. A. Tackett & Co., Archts., Abilene; bids in Aug. 29.

Tex., Fort Worth—City votes in Oct. on school bonds; M. H. Moore, Supt. of schools.

Tex., Goodlett—Berry & Hatch, Archts., Oliver-Eagle Bldg., Amarillo, soon let contract for Williams rural high school, nine miles north of Goodlett.

Tex., Hamlin—Bd. of Education receives on or before Sept. 15 for \$125,000, 2-story, brick and rein. conc. high school; Voelcker & Dixon, Archts., Perkins Snider Bldg., Wichita Falls; following contractors estimating: Joseph E. Morgan, El Paso; J. M. Morgan, Big Springs; James T. Taylor, Fort Worth; Suggs-Dunlap; Belfanz Construction Co.; H. B. Horn, all Abilene; Sampson Construction Co., Lubbock; Albert L. Randall, Amarillo Bldg.; W. Frank Little, Amarillo Bldg.; Clem Anderson Construction Co., 1010 W. 6th St., all Amarillo; H. H. Shadle, Aspermont; Christy-Dolph Construction Co., Fred A. Mote, Const. Indus. Bldg., both Dallas; Taylor Brothers, Perkins Snider Bldg.; Reid & Costley, Staley Bldg.; Harrison Co., 1300 8th St., all Wichita Falls; W. P. Nugent & Son, Spur; plumbing and heating—Chas. D. Hughes, Wichita Falls; S. P. Osburn, 1900 5th Ave., Fort Worth; Levy Plumbing Co.; G. D. Harris & Co.; Kinnison Brothers, all Dallas; Young & Pratt, Lubbock; W. J. Dickerson, Abilene; C. E. Wallace, Stamford; Vickers Plumbing & Heating Co., Sweetwater; J. C. Koriolth Plumbing Co., Sherman; Elliott Engineering Co., Raymond Bldg., El Paso; New Mexico Plumbing Co., Amarillo; Miller-Russell Plumbing Co., Hamlin; Collins Engineering Co., Nocona; electrical—Sun Electric Co.; Moody Electric Co.; Strawbridge Electric Co., all Abilene; Electric Construction Corp.; Jno. Oechsner Electric Co., 809 Brook St.; Hudgens Electric Co., 1403 Austin Ave.; both Wichita Falls; Paramount Electric Co., 1621 Pacific Ave.; J. M. Johnson & Co., 508 N. Akard St., both Dallas; Collins Engineering Co., Nocona.

Tex., Rangerville—Rangerville Ind. School Dist. Trustees erect \$30,000, 1-story, 6-classroom and auditorium, brick and tile school; Lloyd E. Mellor, Archt., Harlingen.

Tex., Vernon—Wilbarger County School Dist. No. 10, care County Supt., having plans prepared by Voelcker & Dixon, Perkins-Snyder Bldg., Wichita Falls, for 2-story, brick and rein. conc. high school near Vernon; 10 classrooms and auditorium to seat 1000; \$70,000 bonds voted.

Va., Mitchells—Circuit Court, C. T. Guinn, Culpeper, call election Sept. 10 on \$20,000 bonds for Cedar Mountain Dist. school to be erected here.

### Stores

D. C., Washington—Demerest Lloyd, 1825 R St., N. W., has permit for alterations to building, 1825 R St.; \$15,000.

D. C., Washington—J. E. Dyer & Co., 3330 M St., N. W., erect 2-story, brick store and warehouse to replace burned structure.

Fla., Miami Beach—W. S. Green, 1107 Fifth St., erect \$25,000, 2-story, conc. block building.

Ga., Savannah—Morgan's, Inc., move to 111 W. Broad St.; remodel.

Ky., Louisville—Edwin C. Gilson erect \$12,000, 1-story, 65 x 75-ft. brick store and office, 646 Main St.

La., New Orleans—S. P. Ladin Co., 605 Main St., Houston, Tex., leased Grunewald Music Store; \$100,000 will be expended for improvements; 4 stories, 25 ft. floor space.

La., Shreveport—Vince Llado, Spring & Lake Sts., erecting by day labor \$18,000 store and apartment building; 2 stories and basement, rein. conc., brick and wood, 65 x 120 ft., conc. and wood floors, 4-ply comp. roof; J. P. Annan, Archt., Slattery Bldg. See Want Section—Building Material and Equipment

La., Shreveport—S. J. Harman, 118 Milan St., started work on 1-story building, Batchelor and Rook Sts.; \$12,500; H. C. Bellows, Contr., Ricou-Brewster Bldg.

Md., Baltimore—Mrs. Julia Wilms Sloan, 401 Woodlawn Rd., has final plans under

completion for department store, northwest corner Howard and Saratoga Sts.; 40x120 ft., 3 stories, limestone; cost \$400,000 to \$475,000; Smith & May, Archts., Calvert Bldg. 7-4

Mo., Kansas City—O. G. Lee, 522 Lee Bldg., having plans prepared by R. H. Sannemann, Lee Bldg., for 2-story store and office building, Main and 13th St.; considering addition later for hotel.

Mo., Kansas City—Walter A. Beseeke, Archt., Huntzinger Bldg., drawing plans for remodeling and erecting addition to brick and rein. conc. building, 18th and Wyandotte Sts.

Mo., St. Louis—Star Furniture House, Jos. J. Rossen, Sec.-Treas., 1540 S. Broadway, ready for bids on 3-story, brick store, Grand and Connecticut; Benj. Shaprio, Archt., Syndicate Trust Bldg.; W. J. Knight Co., Struc. Engr., Wainwright Bldg.

N. C., Charlotte—Goode Realty Co., 11 E. Fifth St., has permit for \$20,000 6-story building, Fenton Place and Providence Road.

N. C., Charlotte—Southern Public Utilities Co., 420 S. Church St., has permit for alterations to 3-story building, First and Church Sts.; \$18,000; first floor for display rooms.

Tex., Sherman—Walter C. Jones remodel building, 217 N. Travis St., for Lion Shoe Co., Dallas.

Tex., Temple—Community Natural Gas Co., W. J. Deakins, Dist. Supt., erect 1-story and basement, 35x110 ft. building to be occupied by Hamill-Haines, tailors.

Va., Roanoke—Jefferson Electric Co., W. J. Pearman, Pres., 514 S. Jefferson St., plans to begin work Sept. 1 on steel, Belgian marble, Indiana limestone trim, fireproof store, 21 Franklin Road; sub-basement, basement,

first floor, mezzanine and second floor, Romanesque style.

### Theaters

Fla., St. Petersburg—E. J. Sparks leased Plaza Theatre and expend \$10,000 for improvements.

Ky., Maysville—James O. White, 2006 Sheridan Drive, Cincinnati, Ohio, representative of Cincinnati and New York company, plans to build \$150,000 theatre; 65 x 148 ft.

Tex., Fort Worth—Tivoli Amusement Co., Abe Levy, Pres.-Gen. Mgr., erect \$75,000 to \$100,000 moving picture theatre, 808 W. Magnolia Ave.; auditorium to seat 1000.

Tex., Marshall—East Texas Theatres, Inc., Sol E. Gordon, Pres., extended date of receiving bids from Aug. 27 to Sept. 3 for \$150,000, 1-story and balcony, brick, steel frame and conc. theatre, store and garage; Emile Weil, Inc., Archt., Whitney Bk. Bldg., New Orleans, La. 8-22

### Warehouses

Ga., Augusta—W. W. McMurray & Co., 1338 Whitney St., has indefinitely postponed awarding contract for warehouse, 1122 Jones Ave.; Sibert & Robinson, 126 Eighth St., lately noted low bidder; Scroggs & Ewing, Archts., S. F. C. Bldg. 8-15

Tenn., Knoxville—Dean Tobacco Warehouse Co., J. W. Dean, Pres., Shawnee Woods, Kingston Park, has plans by Manley & Young, Maplehurst Park, and soon call for bids for \$80,000 warehouse on Jackson Ave.; fireproof, steel frame work, conc. floors, siding of conc. blocks or sheet metal; 36,000 sq. ft. floor space. 8-15

doors, skylights, vault; M. E. Boyer, Jr., Archt., 1516 E. Fourth St. 7-25

Okla., Elk City—First Natl. Bank remodeling building.

Okla., Okmulgee—Gillespie Construction Co. has contract to remodel Central Natl. Bk. Bldg.; Rush, Endacott & Goff, Archts., Wright Bldg., Tulsa.

Tex., Fort Worth—Following sub-contracts awarded on \$2,000,000, 18-story, brick, stone and steel, fireproof office and store building, under construction at W. Seventh and Throckmorton Sts., for Jesse H. and John T. Jones, 3815 Montrose St., both Houston; Hewitt Construction Co., Gen. Contr., Bankers Mortgage Bldg., Houston; Electric, Eugene Ashe Electric Co., 505 Jones St., Fort Worth; heating and ventilating, Divie Heating & Ventilating Co., 109 Fannin St., Houston; plumbing, J. C. Korioth Plumbing and Heating Co., Sherman; struc. and rein. steel, Austin Bros., 1813 Coombs St., Dallas; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth; The Fair, department store, to occupy basement and 6 floors; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg. 7-18

Tex., Houston—A. T. Vick Co., Electric Bldg., has elect. work contract for \$250,000 store and office bldg. for Peden Iron & Steel Co., 700 N. San Jacinto St.; plumbing, Barber Plumbing Co., 1419 Paige St.; east stone, Pyramid Stone Co., 1107 National St.; Jas. Ruskin Bailey, Archt., Public Natl. Bk. Bldg.; Don Hall, Contr., Cotton Exchange Bldg. 6-27

Tex., San Antonio—Additional sub-contracts let on \$1,500,000 office bldg. for J. P. Nix, 205 E. Travis St., for which third floor steel is being set; Lumber, San Antonio Materials Co.; brick, Acme Brick Co., Gunter Bldg.; granite, Henry Meier, 1246 E. Commerce St.; tile, marble and terrazzo, Kirkwood, Wharton & Co., 523 N. Flores St.; painting, Walter J. Daly, Gunter Bldg.; rein. steel, misc. and orna. iron, Alamo Iron Works, 130 Santa Clara St.; finish hardware, Yale & Townes; prism lights, A. Salisbury, 602 Burnet St.; all San Antonio; steel sash, Detroit Steel Products Co., 2250 E. Grand Blvd., Detroit Mich.; metal doors, and steel bucks and trim, L. S. Pinkston Co., Dallas, Tex.; elevator enclosures, Tyler Co., Cleveland, O.; Henry T. Phelps, Archt., Hicks Bldg.; Beretta-Stiles Co., Inc., Const. Engr., Natl. Bk. of Commerce Bldg.; J. P. Haynes, Contr., Moore Bldg., all San Antonio. 6-13

Tex., Vega—First State Bank erecting building; Berry and Hatch, Archts., Oliver-Eagle Bldg., Amarillo.

### Churches

D. C., Washington—St. Gabriel's R. C. Church, Grant Circle, N. W., awarded contract to Wm. P. Lipscomb & Co., District Natl. Bk. Bldg., for 1-story, brick and stone church; Maginnis & Walsh, Archt., 20 Providence St., Boston, Mass., Geo. O. Weschler, Engr., 1010 Vermont Ave., N. W. 8-22

Fla., Apalachicola—St. Patrick's R. C. Church let contract to J. A. and H. H. Brown for \$30,000 bldg.; John J. Carey, Archt., State Office Bldg., Mobile, Ala. 5-3

Ga., Folkston—First Baptist Church, Rev. J. D. Poindexter, Pastor, started work on Sunday school annex.

Mo., Kansas City—Presbyterian Church, Rev. Roy W. Zimmer, Pastor, erecting \$70,000 building, Overland Park; Gothic design, contain auditorium to seat 350 persons and Sunday School rooms; brick over Con-T construction; E. O. Bostrum, Archt.

Mo., St. Louis—St. Matthews Missionary Baptist Church (Colored), Rev. F. J. Capshaw, Pastor, 3838 Cook Ave., erect \$15,000 brick bldg.; 2 stories and basement, 47x60, conc. and stone foundation; owner builds by sub-contract.

N. C., Greensboro—Grace Evangelical Lutheran Church (colored), received low bid at \$23,386, from W. B. Hunt for church, Washington St. and Benbow Rd.; Harry Barton, Archt., Jefferson Bldg., Greensboro; Theodore Steinmeyer, (Archt.), Int. Life Bldg., St. Louis, Mo., Building Commr. of Lutheran Synod. 8-22

Tenn., Knoxville—Beth-El Congregation, I. Beiler, Chmn., awarded contract to B. T. Thomas for community center; auditorium, gymnasium, dining hall, club rooms; A. W. Rutherford, Archt. 8-22

Tex., Beaumont—Mt. Zion Baptist Church, Lincoln and Leiper St., has permit for repairs.

Tex., Beaumont—Highland Ave. Baptist Church, D. R. Pevoto, Pastor, will start work in 90 days on \$40,000 building; brick veneer, 2 stories, 50x80 ft., cement and pine floors, conc. foundations, built-up roof; pastor to supervise construction. 8-15

Tex., Fort Worth—R. K. Meggs, 3127 View St., has permit for \$10,000 community church, College and Cannon Sts.

### City and County

Ala., Birmingham—Following additional sub-contracts let by Southern Ferro Concrete Co., Gen. Contr., 70 Ellis, Atlanta, on \$3,250,000 Jefferson County Court House, on which last tier of struct. steel is being constructed and conc. work is up to fourth floor; Electric wiring, Howard P. Foley Co., 2020 I St., N. W., Washington, D. C.; limestone, Ingalls Stone Co., Bedford, Ind.; cut granite, Cold Spring Granite Co., Cold Spring, Minn.; double hung windows, Campbell Metal Window Co., New York; steel casements, International Casement Co., Jamestown, N. Y.; Holabird & Root, Archts., 333 N. Michigan Ave., Chicago; Harry B. Wheelock, Assoc. Archt., Steiner Bldg., Birmingham. 5-23

Fla., Vero Beach—Indian River County awarded contract for jail to Pauly Jail Building Co., 2215 DeKalb St., St. Louis, Mo.

Md., Baltimore—Mayor and City Council have permit for 1-story masonry building, Clifton Park, to be used for stable and storage; 171.6x20 ft.; \$12,400.

S. C., Laurens—City awarded contract to Carolina Construction Co., Walker Bldg., Greenville, for city hall; 2 stories and basement, conc. footings, brick and tile walls, struc. steel, comp. roofing, hardwood and tile floors, steam heat; King & Mahon, 27 W. McBee Ave., Greenville, have heating contract; Wm. R. Ward, Archt., Walker Bldg. 8-8

Tenn., Memphis—City Park Comsn., John T. Willingham, Commr., awarded contract at \$23,937 for auditorium, Church Park, to L. E. Joyner, 63 S. Third St.; also let contract at \$4175 for comfort station to Bert Holmes, 746 Garland St.; Hanker & Cairns, Archts., 123 S. Court St. 7-23

### Dwellings

D. C., Washington—Mrs. Deming Jarvis, Dienant, France, erect \$45,000 dwelling, McGill Terrace, N. W.; 2 1/2-story, brick; J. E. Cooper, Archt., 1417 K St., N. W.; contract let.

D. C., Washington—National Woodworking Co., 39 New York Ave., N. E., has permit for six 2-story brick and tile dwellings, 722-32 Underwood St., N. E.; \$30,000.

D. C., Washington—Martin B. Wiegand, 451 Md. Ave., S. W., has permit for 2-story brick dwelling, 3056 Elliott St., N. W.; \$33,000.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

D. C., Washington—Following sub-contracts let on \$200,000 Almas Temple, on which Chas. H. Tompkins Co., the Gen. Contr., 1608 K St., N. W., is now constructing basement walls and pouring basement columns; Brickwork, W. T. Elfman, 900 Quincy St., N. W.; granite, Jos. E. Smith Granite Co., Seventh & Franklin Sts., N. E.; metal windows, Moeschel-Edwards Corrugating Co., 112 W. Ninth St., Covington, Cincinnati, O. through Lall-Rohlader Co., 1756 M St., N. W.; plumbing, D. C. Engineering Co., 3710 Georgia Ave., N. W.; dumbwaiter, Houghton Elevator & Machine Co., Vermont Bldg.; rein. steel, Rosslyn Steel & Cement Co., 3031 K St., N. W.; all Washington; ornamental terra cotta, Conkling-Armstrong Terra Cotta Co., Wissahickon Ave. & Junata St., folding partitions and rolling steel door, J. G. Wilson Corp., 1700 Walnut St., both Phila., Pa.; bowling alleys, Brunswick-Balke-Collender Co., 410 W. Lombard St., Baltimore, Md.; glazing, Hires Turner Co., Rosslyn, Va.; stone setting, R. J. Tierney, 111 Grant Ave., Takoma Park, Md.; tile, marble, terrazzo and slate, U. S. Tile & Marble Co., 2020 Georgia Ave., N. W.; L. P. Stewart, Chmn., Bldg. Committee, A. A. O. N. M. S., Allen H. Potts, Archt., Albee Bldg., all Washington. 6-20

### Bank and Office

Ga., Albany—Nye Oderless Incinerator Corp., Georgia Life Bldg., Macon, erecting office building.

Ga., Atlanta—American Elevator Co., 117 Cedar Ave., N. Y., has contract to install elevators in connection with \$100,000 improvements under way at Atlanta Natl. Bk. Bldg.; Southern Ferro Concrete Co., Gen. Contr., 70 Ellis St., N. E.; Morgan, Dillon & Lewis, Archts., Grant Bldg. 8-8

Mo., California—Farmers & Traders Bank, H. W. Kuhns, awarded contract to W. H. Hooker, Sedalia, for \$35,000 building; rein. conc. and steel, brick and stone, 30x90 ft., 1 story, comp. roof, conc. floors covered with tile and rubber tile; LeRoy Parria, Archt., 115 W. High St., Jefferson City. 8-8

Mo., Columbia—Lakeman N. Price started work on \$36,000 building; orna. brick, terrazzo, 50x125 ft.; day labor; C. M. Trout in charge. 3-7

N. C., Charlotte—Industrial Loan & Investment Bank, H. H. Orr, Pres., 28 W. 4th St., let contract to J. A. Jones Construction Co., Commercial Natl. Bk. Bldg., Charlotte, for improvements to buildings, S. Church St.; \$100,000; sandstone and granite front, bronze



D. C., Washington—John A. Hunter, 1419 Colb Rd., N. W., has permit for 2-story brick and tile dwelling, 5321 Nevada Ave., N. W.; \$12,000.

D. C., Washington—Shapiro Construction Co., Inc., 1416 I St., N. W., has permit for two 2-story brick dwellings, 1721-23 Hobart St., N. W.; \$10,000.

D. C., Washington—Breuninger & Phillips, Colorado Bldg., have permit for 2-story, brick dwelling, 2581 Rhode Island Ave., N. E.; \$10,000.

Fla., Coral Gables—M. Clair Sinney, care of Paist & Stewart, Archts., Art Center Bldg., awarded contract to H. R. Rieder for 2-story residence and garage, 760 Alhambra Circle; cost approx. \$39,000.

Fla., Dunnellon—J. M. Walker rebuilding burned residence.

Fla., Melbourne—Guerin Investments, Inc., erect frame stucco dwelling, Indianalantic, 56x32 and 22x40 ft., 2 stories, tile roof, conc. foundation, tile, wood and marble floors; owner builds. See Want Section—Building Material and Equipment.

Fla., Miami Beach—Mrs. Selenia Wagner, care LeRoy Kinports, Archt., 3897 Kumquat Ave., Coconut Grove, awarded contract, at \$12,900, to E. G. Horne Construction Co. 1016 Alhambra Circle, for residence, Prairie Ave. and 30th St. 7-25

Fla., Miami Beach—Watson H. Butler, Columbus, Ohio, plans \$35,000 residence, garage and servants quarters, N. Bay Rd. at 52nd St.; 2-story, conc. block, tile and comp. roof, tile and oak floors, steel sash; C. R. Clark, Contr., Bastian Bldg., Lincoln Rd.; Martin L. Hampton, Archt.

Fla., New Port Richey—Miss Isabelle Hyams, Jamaica Plain, Boston, Mass., erecting \$10,000 residence; Spanish type, hollow tile; A. M. Pierson, Contr.

Fla., Palm Beach—Following subcontracts let on Spanish type residence being erected for Mrs. Chas. Amory by Consolidated Engineering Co., Inc., 20 E. Franklin St., Baltimore, Md.: Struct. steel, Dietrich Bros., 220 Pleasant St.; plumbing and heating, L. E. Mitchell, Inc., 915 E. Monument St.; painting, H. Chambers, 600 N. Howard St., all Baltimore, Md.; ornamental and misc. iron, Lan Franchi, Palm Beach; electric wiring, McDonald Electric Co.; plaster, J. B. Nora, 1721 39th St.; Ahern Roofing Co., 1911 S. Poinsettia St.; millwork, McClellan Millwork Co., 4408 Georgia Ave., all West Palm Beach; Wm. Gordon Beecher, Archt., 12 E. Pleasant St., Baltimore. 6-27

Fla., St. Petersburg—R. L. Rand has permit to erect residence and garage, 416 17th Ave., N. E.; \$14,500; 41 x 38 ft., 2 stories, clay tile; C. W. Fullwood, Jr., Archt., Taylor Arcade; J. S. Beauchemin, Contr.

Fla., Tampa—William G. Bibb, 71 Broadway, New York, erect \$75,000 residence at Mountain Lake; 2 stories, 100x50 ft., stucco or hollow tile, oak floors, hot air heat; Franklin Abbott, Archt., 230 Park Ave., New York; G. A. Miller, Inc., Contr., 312½ Twigg St., Tampa.

Ga., Atlanta—Thos. C. Windham, Mortgage Guarantee Bldg., erect \$40,000 residence in Rockmart subdivision; owner builds.

Md., Baltimore—C. K. Wells, Jr., Contr., 3538 Old York Rd., has permit for 2½-story, stone dwelling and garage, 3 Bellemere Rd.; 62.9x46 ft., tile roof, hot water heat; \$18,000; Palmer & Lambdin, Archts., 513 N. Charles St.

Md., Baltimore—Frank Novak Realty Co., Gunther Bldg., filed application for permit to build 33 2-story brick dwellings, 300 block S. Drew St., in Eastern Ave. section; \$66,000.

Md., Baltimore—Harlem Building Co., 2546 Edmondson Ave., applied for permit to build 13 2-story frame dwellings, 4600 block Rokeby Rd.; \$50,000.

Md., Baltimore—David Kleiman, 2429 Eutaw Place, applied for permit to build six 2-story, brick dwellings, 3330-40 Piedmont Ave.; two, 20x42 ft., and four 19.3x42 ft.; \$18,000; owner archt. and bldr.

Md., Baltimore—Thomas Mullan, Bldr., 3945 Greenmount Ave., applied for permit for six 2½-story, stone and stucco dwellings, 505-15 E. 39th St.; \$18,000. 7-25

Md., Baltimore—Benj. Kleiman erect 10 brick dwellings, 2300 block Anowa Ave.; \$30,000; owner builds.

Mo., Kirkwood—William E. Hough, East Essex Ave., erect \$20,000 residence, E. Essex Ave., between Kirkwood Rd. & Taylor Ave.; 42 x 50 ft., 2 stories, frame, slate coated roof, hot water heat; Wallace & Sachse, 700 N. Kirkwood Rd., Archt.; Fred C. Howell, 115 N. Kirkwood Rd., Contr.

Mo., St. Louis—I. Borenstein, 2105 N. Broadway, has permit for \$10,000 dwelling, 246 Woodbourne St.; 2-story, 35x39 ft., tile

roof; also 1-story garage, 27x21 ft., tile roof; C. Koenig, Archt., 2026 Russell St.; J. Goldman, Bldr., 1407 Blackstone St.

N. C., Greensboro—Dr. L. A. Riser, care Pilot Life Insurance Co., let contract to T. M. Starr, 123 McIver St., for \$15,000 residence and garage, Rowan Rd., Sedgefield; 52x31 ft., 2 stories and basement, brick veneer, 2 baths; Joseph J. Sawyer, Archt., Jefferson Bldg.

Okla., Tulsa—Forrest E. Gilmore, Phil-tower Bldg., awarded contract to F. H. Mat-tern, Commercial Bldg., for brick veneer resi-dence, 2 stories and basement, 36x54 ft.; Fred Knoblock, Archt.

Tenn., Knoxville—City Councilman T. As-bury Wright, Jr., erect residence, Lyons View Rd.; Bauman & Bauman, Archts., 813½ Market St.; Weaver & McGill, Contrs.

Tenn., Knoxville—Following subcontracts have been awarded by J. M. Dunn & Son, Depot and Broadway, for W. M. Fulton's \$250,000 residence, Kingston Pike, which is 25% completed; Heating and plumbing, Mc-Auliff's, Inc., 306 W. Jackson St.; elec-trical work, Acme Acme Electric Co., 245 N. Broadway; roofing tile, Chandler & Co., 426 W. Depot St., glass, American Glass Co., 510 N. Broadway; plastering, Andy Goolsby & Son, 245 N. Broadway; passenger elevator and dumb waiter, Warner Service Co., 102 W. Church St.; struct. steel, W. J. Savage Co., 1912 W. Church St.; rein. steel, Knoxville Iron Co., Lonsdale; millwork, Chavannes Lumber Co., 400 W. Oldham St.; lumber, D. M. Rose & Co., 215 Island Home Ave.; stone, Cooper Marble Co., 806 Burwell Bldg.; cement, Vol-unteer Portland Cement Co., Holston Bk. Bldg.; Barber & McMurtry, Archts., Tenn. General Bldg. 3-28

Tenn., Knoxville—John Carter has permit for \$10,000 residence, Scenic Drive.

Tex., Fort Worth—W. E. Combs has per-mit for \$15,000 residence, 2309 Medford Court; brick veneer; owner builds. 8-1

Tex., Fort Worth—C. W. Atkinson, First Natl. Bk. Bldg., erect residence, Meadow-brook Drive; brick veneer, 2 stories, 38x46, asbestos shingle roof; Earl T. Glasgow, Archt., both First Natl. Bk. Bldg.

Tex., Houston—Dr. C. D. Creviston, Medi-cal Arts Bldg., awarded contract for Span-ish type residence, at \$14,500, to Vincent Hall of Hall Construction Co., San Jacinto Tr. Bldg.; frame and stucco, rein. conc. foundations, 2-stories, hardwood floors, tile roof; Charles Oliver, Archt., River Oaks. 8-22

Tex., Laredo—Nic Baccaro, Proprietor of Bohemian Club, awarded contracts to Ricardo Oritz and City Lumber Co., for residence, Rosario St.; 50x50 ft., face brick veneer, 2 stories, 8 rooms; \$30,000; Guy M. Trout, Archt.

Tex., McAllen—W. E. Crawford has con-tracts for residences: two for Scott Ford and one each for H. W. Deans and Charles Moore.

Tex., McAllen—W. C. Carson and J. T. Rogers, Builders, erecting residences.

Tex., San Antonio—Wharton Johnson, 133 Hermosa St., erect \$15,000 dwelling, 122 aPrk Drive; rock veneer, 2 stories, 37x71 ft.; owner builds.

Tex., San Antonio—O. C. Boshyshell, 6315 S. Flores St., received low bid from A. Vogel for 2-story residence, S. side Braham Blvd.; brick, cast stone, conc. foundation; Charles T. Boelhaue, Archt., Aztec Bldg. 8-22

Tex., Wichita Falls—Ben G. O'Neal, Wag-oner Bldg., has permit for brick veneer resi-dence, 2200 Miramar Ave.; \$27,500.

### Government and State

Tex., Dallas—Following firms have sub-contracts on \$1,250,000 Post Office, N. P. Severin Co., 22 W. Adams St. Chicago, Ill. Gen. Contr.: International Cement Co., Santa Fe Bldg., Blue Diamond Co., 2422 Myrtle St., W. L. Macatee & Sons, 2907 San Jacinto St., Reliance Clay Products Co., Reliance Brick Co. of Texas, Republic Bk. Bldg., Mosher Steel & Machinery Co., 5209 Maple St., May-field Lumber Co., Truscon Steel Co., South-ern Fireproof Co., Allen Bldg., Vermont Marble Co., 1513 Wall St., Huey & Philip Hardware Co., 1029 Elm St., and Dallas Transportation Co., 817 Bombon St., all Dal-las. 8-15

### Hospitals, Sanitariums, Etc.

Mo., Riverton—Sisters of St. Francis Or-der, Rev. Joseph C. Straub, awarded contract to J. L. Simmons Co. for dormitory for stu-dent nurses at St. John's Sanitarium; 180x 40 ft., 3 stories and basement, brick and conc.; Helmle & Helmle, Archts.

D. C., Washington—H. Herfurth, Jr., 1406 G St., N. W., has contract at \$37,750 for

improvements to Government Printing Bldg., Capitol and H Sts. 5-23

Okla., Oklahoma City—State Bd. of Affairs let contract to Smiser Construction Co., 2300 N. Broadway, for additional work at Govern-ment's mansion, including garage and fence.

Okla., Holdenville—Dr. W. E. Floyd awarded contract to Smiser Construction Co., 2300 N. Broadway, Oklahoma City, for \$45,-000 hospital; brick, stone trim, tile roof, 2 stories, 36 rooms, 4 wards, sterilizing rooms, X-ray dept.; Guy C. Reid, Archt., Elks Bldg., Oklahoma City. 8-15

Tex., Galveston—Following additional sub-contractors on out-patient building under construction at John Sealy Hospital: Mill-work, Austin Sash & Door Co., 611 E. 6th St., Austin; Lueder stone, Bedford-Carriage Stone Corp., Democratic Bldg.; struc. steel, Houston Structural Steel Co., 3910 Washing-ton St., both Houston; rein. steel, Truscon Steel Co., Construction Industries Bldg., Dallas. 8-8

### Hotels and Apartments

Fla., Inverness—W. M. Maloy let contract to W. R. Austin for improvements to Orange Hotel.

Fla., Miami Beach—Albert Weber, Inc., Meyer-Kiser Bk. Bldg., Miami, Gen. Contr. for \$175,000 Murida Beach Hotel, Sheridan and Washington Aves., has awarded follow-ing sub-contracts: Lumber, Fisher Lumber Co., 1400 S. W. First Ave.; plumbing, Mar-kowitz & Resnick, Inc., 839 W. Flagler St.; electrical work, Wagner Electric Co.; rein. steel, Reinforcing Steel Co., 20 N. W. 15th St., all Miami; building to be rein. conc., L-shaped, width 48 ft., one wing 178 ft., other 65 ft., 4 stories, 105 rooms; equip with elevators; furnishings and equipment cost \$50,000; Mrs. Ida Fishkin, Pres., Mu-rida Beach Hotel Corp.; Wm. A. Bennett, Real Estate Bldg., and A. Schimek, Assoc. Archts.; L. B. Taylor, Engr., Congress Bldg., all Miami. 8-22

Fla., Palm Beach—Ambassador Hotel Co., Park Ave. and 51st St., New York, let con-tract to Geo. W. Langford, McAllister Hotel, Miami, for \$350,000 addition to Palm Beach Ambassador Hotel, formerly known as the Alba; Treanor & Fatio, Archts., 3 E. 44th St., New York, and Phipps Plaza Hotel, Palm Beach. 7-25

Ky., Louisville—Matthew Rauhen, of Mat-thew Rauhen Co., 326 Madison St., Chicago, Contr. and part owner of \$1,000,000 Cum-berland Apartments, under construction at Second and York Sts., purchased site adjoi-ning, erect building as addition to apartments; erect garage in rear; \$450,000. 4-25

Mo., St. Louis—H. Keupel, 4946 W. Floris-sant St., erect \$10,000, 2-story, 38x58 ft., brick tenement, 4957 Rosalie St.; slate shingle roof; A. Albert, Archt., Syndicate Trust Bldg.; owner builds.

Mo., St. Louis—Following sub-contracts awarded on \$6,000,000, 28-story, 216x200 ft. Park Plaza Apartment Hotel, Kingshighway Blvd. and Maryland Ave., under construc-tion for Park Plaza Apartment Hotel Co., Sam Koplar, 265 N. Union Blvd.; cut stone, St. Louis Cut Stone Co., 3535 Gratoit St.; struc. steel and shelf angles, Mississippi Val-ley Structural Steel Co., Arcade Bldg.; conc., McCormick Combs Construction Co., Colum-bia Bldg.; misc. iron, Usona Manufacturing Co., 2510 Chouteau Ave.; glass, Gurrroughs Glass Co., 1003 N. 6th St.; calson work, Gow Co., Inc., Rwy. Exchange Bldg.; in-terior furnishings, Stix, Baer & Fuller; mill-work, Huttig Sash & Door Co., 1200 S. Van-deventer Ave.; chimney, Wiederholdt Con-struction Co., Bank of Commerce Bldg.; all St. Louis; granite, North Star Granite Corp., St. Cloud, Minn.; elevator fronts and metal trim, Dahlstrom Metal Products Co., James-town, N. Y.; generators, Skinner Engine Co., Erie, Pa.; radiation, Thermal Units Co., Chicago; Laurence O. Schopp and Edwin J. Bauman, Archts., 530 N. Union Blvd. St. Louis. 1-3

Mo., St. Louis—S. Rosenstrom, 906 N. Grand Ave., erect two \$5000, 2-story, 22x46 ft., brick tenements, 4583 Garfield St. and 4270 W. Lucky St.; asphaltum roofs, hot air heat; Garden Horem Realty Co., Bldr., same address.

Mo., St. Louis—H. Kobermann has per-mit for two 2-story, 34x46-ft. tenements, 5006 and 5007 Mardell St., and 2-story, 34x46-ft. dwelling, 6521 Leona St.; all brick, comp. roofs, hot air heat; \$20,000; A. Kober-mann, Archt.-Bldr., both 7242 Gravois Ave.

Mo., St. Louis—E. A. Krackle, 6274 Gra-vois Ave., has permit for \$10,000, 2-story, 27x44-ft. brick tenement, 4977 Oleatha St.; owner Bldr.

Mo., St. Louis—Skinker Northwood Invest-ment Co., R. H. McRoberts, Pres., Paul Brown Bldg., started work on foundation for \$1,000,000, 16-story, 46-apartment, 625

Skinker Boulevard; 90-car garage; financed by Fidelity Bond & Mortgage Co., Chemical Bldg., by \$750,000 issue of first mortgage bonds; F. G. Avis Archt., 1021 Big Bend Road.

Mo., St. Louis—J. C. Lamping, 3961 Delor St., erect four 2-story, 34x50 ft., brick tenements, 4241-55 Bates St.; \$48,000, comp. shingle roofs, hot air; owner, Archt.-Bldg.

N. C., Charlotte—M. H. Spillers, 1312 East Boulevard, has permit for 2-story, brick veneer apartment house, East Blvd.; \$10,500.

Okl., McAlester—Aldridge Hotel Co., We-woka, let contract to Harmon & Mattison, Okla. Savings Bk. Bldg., Oklahoma City, for \$600,000, 11-story, 160-room, fireproof Hotel McAlester, Grand and Second Sts.; 50-car garage. 7-18

Va., Martinsville—Rives S. Brown and S. S. Stephens let contract to Finley & McCoy, Inc., at \$49,126, for apartment and office bldg.; brick and stone, 4 stories, 40x207 ft.

W. Va., Huntington — Neighborgall & Leach, 1034 10th Ave., have contract to remodel Ashworth Bldg., Third Ave. and Eighteenth St., for apartments; \$15,000.

### Miscellaneous

Mo., St. Louis—Convent of the Good Shepherd, 3801 Gravois Ave., has permit for 3-story dormitory; rein. conc. construction, cement, wood and comp. floors, comp. roofing; Hellmuth & Hellmuth, Archts., Commercial Bldg.; C. W. Schuler & Co., Contrs., Arcade Bldg.

N. C., Chapel Hill — Phi Gamma Delta Fraternity let contract to Berry McAlester, Columbia, Mo., for \$45,000, 3-story, brick frat house on Cameron Ave.

Tex., San Benito—Markham Thompson let contract to R. E. Ewing for \$11,500 addition to Thompson Mortuary; 2 stories, brick and stucco, 7-room apartment on second floor; Birger A. Elwing, Archt.

### Railway Stations, Sheds, Etc.

Miss., Aberdeen—St. Louis and San Francisco Rwy. Co., F. G. Jonah, Ch. Engr., Frisco Bldg., St. Louis, started work on \$15,000 depot at East Aberdeen; C. G. Kerchaw Construction Co., Contr., Birmingham, Ala. 5-16

### Schools

Ala., Calera—School Bd. let contract to A. B. Bearden, Columbiana, for \$14,000 high school auditorium.

Ark., Conway—State Teachers College Bd. of Trustees has low bid at \$44,714 and probably award contract to J. H. Reddick, Kennedy Bldg., Fort Smith, for library; Witt, Siebert & Halsey, Archts., Texarkana, Ark. 7-4

Fla., Tallahassee—State Bd. of Control, P. K. Yonge, Chmn., Hotel White House, Gainesville, let contract at \$23,184 to Hanner Construction Co., Tallahassee, for extension to dining room at A. & M. College for Negroes; Rudolph Weaver, Archt., Peabody Hall, Gainesville. 8-1

Ga., Royston — Bd. of Education, C. N. Bowers, Chmn., let contract to Jordan Construction Co. for 1-story and basement, 135x150 ft., brick veneer school; wood floors, comp. shingle roof; J. J. Baldwin, Archt., Anderson, S. C. 5-23

Md., Midway—Frederick County Bd. of Education, G. Lloyd Palmer, Sec., Frederick, let contract at \$23,520 to G. C. Weddle, Thurmont, for 1-story, brick, 6-classroom grade school; John B. Hamme, Archt., York, Pa. 8-8

Miss., Alcorn—Mississippi Building Comsn., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, let following contracts at Alcorn A. & M. College: Boiler house, \$10,600, W. J. McGee & Son, Lamar Bldg.; electric wiring, Stuart Irby Co., 232 E. Captain St.; plumbing and heating, \$6000, and sewerage, \$36,759, El Dorado Plumbing & Heating Co. all Jackson; Claude H. Lindsley, Archt., Lamar Bldg., Jackson. 8-1

Miss., Cleveland — Mississippi Building Comsn., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, let contract at \$6725 to Currie & Corley, Raleigh, for boiler house at Delta State Teachers College; electric wiring, Stuart Irby Co., 232 E. Captain St., Jackson; Claude H. Lindsley, Archt., Lamar Bldg., Jackson. 8-1

Miss., Cleveland—Cleveland Consolidated School Dist. Trustees, J. R. Roberts, Pres., awarded contract at \$51,238 to O. B. Douglass Construction Co., Drew, Miss., for school; 1 story, 152x160 ft., brick, tile and stone, pine floors, conc. foundation, 20 year bonded roof; project, including furnishings,

to cost approx. \$82,000; Hull & Malvaney, Archts., Merchants Bk. Bldg., Jackson. 8-22

Miss., Columbus — Mississippi Building Comsn., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, let contracts at \$21,000 and \$13,500 to Alonzo B. Hayden, Inc., Pass Christian, for repairs to boiler rooms at Agriculture and Mechanical College, Starkville, and Mississippi State College for Women, Columbus; electric wiring for former, Southeastern Electric Co.; Claude H. Lindsley, Archt., Lamar Bldg., Jackson. 8-1

Miss., Mount Olive—Mount Olive Separate School Dist. Trustees, Dr. A. S. Calhoun, Pres., let contract at \$16,520 to L. S. Masengale, Collins, for 1-story, rein. conc., brick and stone trim high school; 5 classrooms, built-up comp. roof; Vinson B. Smith, Jr., Archt., Bk. of Gulfport, Gulfport. 8-1

Miss., Starkville—See Miss., Columbus.

Mo., Columbia—Phi Mu Sorority, Marie Weinholz, Chmn., Bldg., 1415 University, erect \$50,000, 3-story, brick building; John Epple Construction Co., Contr.; Trueblood & Graf, Archts., Chemical Bldg., St. Louis. 7-4

Mo., Washington — St. Francis Bourget Catholic Church, Rev. Father Ignacius, let contract to J. W. Trentman for \$150,000, 2-story, brick school hall.

N. C., Greenville—East Carolina Teachers' College let contract at \$218,000 to John W. Hudson, Professional Bldg., Raleigh, for second unit of training school, first unit of classroom building and infirmary; George R. Berryman, Archt., Odd Fellows Bldg., Raleigh. 8-15

N. C., Hoffman—Morrison Training School, Dr. L. L. Boyd, Supt., let contract at \$24,127 to A. L. Boykin, Sanford, for brick dormitory building and trades building; M. R. Marsh, Archt., Builders Bldg., Charlotte.

Okl., Ada—State Bd. of Affairs, Gus C. Wollard, Sec., Oklahoma City, let contract at \$11,344 to Grinnell Heating & Plumbing Co., Court Arcade Bldg., Tulsa, for heating plant at Ada State Normal School.

Okl., Cyril — Bd. of Education let contract to F. A. Thompson, Cordell, for \$13,000 school; The Huseman Co., Archt., Chickasha.

Okl., Felt—Bd. of Education let contract to Geo. W. Payne, Taloga, for \$21,000, 1-story, 54x148 ft., brick school; The Huseman Co., Archt., Chickasha.

Okl., Kiowa—Bd. of Education let contract to F. A. Thompson, Cordell, for \$11,000 school; The Huseman Co., Archt., Chickasha.

Okl., Pauls Valley—State Bd. of Affairs, Gus C. Wollard, Sec., Oklahoma City, let contract at \$25,975 to Cosgrove & Mayer, Herskovitz Bldg., Oklahoma City, for repairs on heating plant and at \$13,536 to Wilson Construction Co., for repairs to buildings at Pauls Valley School; Layton, Hicks & Forsythe, Archts., Braniff Bldg., Oklahoma City. 8-15

Okl., Sedan—Sedan Consolidated School Dist. No. 9 let contract at \$18,000 to Parker & Bryan, Hobart, for 1-story, 120x154 ft., brick and frame school; comp. roof, wood floors; E. H. Eads & Co., Archts., Chickasha. See Want Section—Building Material and Equipment. 8-22

Okl., Sharon—Bd. of Education erect \$32,000 school; Bowlin & Green, Contrs., Okemah; The Huseman Co., Archt., Chickasha.

Okl., Sulphur—State Bd. of Affairs, Gus C. Wollard, Sec., Oklahoma City, let contract at \$71,368 to G. C. Frier for heating for School for Deaf; Layton, Hicks & Forsythe, Archts., Braniff Bldg., Oklahoma City. 8-15

S. C., Greenville—Bd. of School Trustees, Col. E. M. Blythe, Chmn., let contract at \$47,000 to Morris-McKoy Building Co., Finlay Bldg., for 8-classroom and auditorium brick grammar school on John St.; J. E. Sirrine & Co., 215 S. Main St., Archts. 7-25

Tenn., Chattanooga—Hamilton County Bd. of Education, let contract to Jones & Rozell, James Bldg., for 4-classroom brick Roland Hayes school, East Chattanooga. 8-22

Tenn., Daisy — Hamilton County Bd. of Education, Chattanooga, let contract at \$31,497 to John Parks Co., 315 Oak St., for 2-story, 35x234 ft., brick, 8-classroom and auditorium school; Lewis H. Bull and Norbett Manning, Asso. Archts., Volunteer Bldg., both Chattanooga. 8-15

Tenn., Johnson City—East Tennessee State Teachers College, Charles C. Sherrod, Pres., awarded contracts for central heating unit to Southeastern Paving and Construction Co.; A. H. Abernethy, contr. for plumbing.

Tex., Alice—Bd. of Education let contract at \$13,288 to J. Roscoe Construction Co., 413 Peoples St., Corpus Christi, for 4-classroom addition and remodeling present building.

Tex., Catarina—Catarina Ind. School Dist. Trustees let contract at \$26,400 to J. A. Thompson, care Orange Lumber Co., for 1-story, brick and rein. conc. school; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 8-8

Tex., Pampa — Mrs. George Parr, 2804 Huhes St., and Parr Construction Co., 119 W. 6th St., Amarillo, soon start work on \$40,000, 2-story, 50x140 ft., brick, steel, terra cotta trim store to be leased to Montgomery Ward & Co., Chicago; Rittenberry & Carder Archts., Fisk Medical & Professional Bldg., Amarillo. 8-22

Tex., Uvalde—School Bd., Guy D. Dean, Supt., awarded contract to Allen & Allen, 217 Fredericksburg Rd., San Antonio, for \$84,000 high school; 2 stories, L-shaped, 199.6 x58.6 ft. and 124x50 ft. brick, rein. conc.; plumbing to M. L. Flowers, Uvalde; heating to Seidel Plumbing & Heating Co., 1619 Broadway, San Antonio; electric wiring to San Antonio Electric Co., Builders Exch. Bldg., San Antonio. 8-22

Tex., Vidor — Vidor Consolidated School Dist. Trustees, Levi Singleton, Pres., Terry, Tex., started brick work on \$45,000 school; brick, hollow tile, wood joists and studs, metal lath and plaster, wood and conc. floors, tar and gravel roof, rein. conc. foundation; furnishings cost \$5000; Livesay & Wiedemann, Archts., San Jacinto Life Bldg.; Myers & Knight, Contrs., American Natl. Bk. Bldg., Contrs., both Beaumont.

### Stores

Ark., Little Rock—W. F. Ault, Moore & Turner Bldg., has permit for \$815,000 3-story store, 215 E. Second St.

Fla., Bradenton—Charles Hull Ewing Co., 100 N. LaSalle St., Chicago, erecting store, Manatee Ave., for Montgomery Ward & Co., Chicago; T. A. Monk, Contr., Bradenton. Recently noted under Fla., Palmetto. 8-22

Fla., Miami Beach—Russell Pancoast, 1139 Lincoln Rd. Miami Beach, preparing plans for jewelry shop, Wofford Hotel grounds; \$10,000; 1 story; contractor selected.

Ga., Augusta—Doremus Estate let contract at \$48,400 to Branch & Smith, 334 Walker St., for improvements to 3-story, 272x40 ft., brick, cast stone, granite and marble trim store; tile and conc. floors, metal covered roof; Willis Irvin, Archt., S. F. C. Bldg. 8-22

La., Monroe—A. L. Harrington Co., 125 N. Grand St., started work on \$40,000, 2-story, brick store on N. 4th St.

La., Monroe—L. Caspari, 815 N. 2nd St., E. G. Sugar, 120 Auburn St., and H. D. Montgomery, Bernhardt Bldg., let contract at \$34,294 to Lee Ellis for two 2-story, 30x110 ft. and 40x109 ft., brick buildings. Washington and N. Second Sts.

Miss., Laurel—The Tate Company, J. C. Coates, 404 Central Ave., excavating for \$50,000, 3-story, 48x120 ft., brick and terra cotta trim store on Central Ave., to be leased to S. H. Kress Co., 114 Fifth Ave., New York; 2 elevators, sprinkler system; L. A. Gily, Contr., N. 5th Ave., Laurel. 4-18

Mo., Joplin—R. & D. Shoe Corp., N. Rosenberg, Pres., 620 Main St., remodel store, 402 Byers St.; new front, interior decorations; Greenwell Construction Co., Contr.; Trueman E. Martinie, Archt., 420 N. Wall St. 8-22

Mo., St. Louis — John W. Hays Realty Co., 4019 Finney Ave., erect 3-story and basement, 140x87-ft. brick store and apartment, St. Louis Ave., east of Newstead St.; tar and gravel roof terra cotta trim, maple floors; 6 stores and 40 apartments; John McM. Cook, Archt., 1021 Big Bend Blvd.; Wm. Schulte, Contr., 2806 N. Grand Blvd.

N. C., Asheville—S. Lipinsky Sons & Co., Inc., 34 Haywood St., let contract to L. L. Merchant Construction Co., 290 Biltmore Ave., for 4-story, 45x106 ft., steel frame, brick and tile store for Bon Marche Department Store; terra cotta trim, built-up roof, vapor heat; H. I. Gaines, Archt., Flat Iron Bldg. 8-15

N. C., Mt. Airy—D. H. Cooke, Contr., remodeling and adding second story to Fulton Block, Main St.

Okl., Muskogee—J. C. Penney Co., 330 W. 34th St., New York, started work on \$80,000, 2-story and basement, brick and steel, fireproof store 409 W. Broadway; J. H. Reddick, Contr., Kennedy Bldg., Fort Smith, Ark. 7-4

Okl., Tulsa — Lerner Stores Corp., 354 Fourth Ave., New York, let contract to Rucks-Brout Construction Co., Mid-Continent Bldg., at \$30,000 for general remodeling of 2-story building, 50x130 ft.; comp. roof, hardwood over concrete floors; Charles N.



Whinston & Bros., Archts., 6 E. 42nd St., New York; John Starr, Assoc. Archt., Tulsa. 8-15

S. C., Sumter—T. H. Scaffo started work on 2-story, 40x185 ft., brick store for branch of Scott Stores, Inc., subsidiary of Butler Brothers, 860 Broadway, New York; J. W. Harper, Contr.

Tenn., Elizabethton — Following sub-contracts awarded on \$100,000, 2-story and basement, 115x75 ft. store on Elk Ave., on which work has started, for S. H. Kress & Co., 114 Fifth Ave., New York; Walter Kidde Constructors, Inc., Gen. Contrs., Jefferson Bldg., Greensboro, N. C.; Heating, Christian Heating Co., Charlotte, N. C.; electric, Lyle Morgan; plumbing, C. O. Biddle; roofing, J. B. White, all Johnson City; G. E. Mackay, Company Archt. 8-22

Tex., Corpus Christi — John Grant, 507 Waco St., receive bids Sept. 12 for 1-story store bldg.; 1 story, 7 stores, brick, tile, rein. conc.; Dielmann & Levy, Archts., State Natl. Bk. Bldg.

Tex., Fort Worth—Following sub-contracts awarded on \$2,000,000, 18-story, 198x200-ft., brick, stone, steel, fireproof office and

store building, under construction at W. Seventh and Throckmorton Sts., for Jesse H. and John T. Jones, 3815 Montrose St., Houston; Hewitt Construction Co., Gen. Contr., Bankers Mortgage Bldg., Houston; Electric, Eugene Ashe Electric Co., 505 Jones St., Fort Worth; heating and ventilating, Dixie Heating & Ventilating Co., 109 Fannin St., Houston; plumbing, J. C. Koriath Plumbing & Heating Co., Sherman; struc. and rein. steel, Austin Bros., 1815 Coombs St., Dallas; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth; The Fair, department store, to occupy basement and 6 floors. 5-30

Tex., Port Arthur—Fred Miller & A. Roy Beaumont, let contract to C. F. Law, Pearlstein Bldg., for \$40,000 store and bakery; brick, hollow tile, steel joists, 90x100 ft., 1 story and mezzanine, cement and terrazzo floors, built-up and tile roof; equipment cost \$15,000; Livesay & Wiedemann, Archts., San Jacinto Life Bldg., Beaumont.

Tex., San Antonio—Guaranty State Bank let contract to L. T. Wright & Co., Builders Exchange Bldg., to remodel bank room, 327 E. Houston St.; marble and tile store front, build mezzanine, store fixtures; National Family Stores, Inc., Lessee, New York; Rob-

ert B. Kelly, Archt.; W. E. Simpson Co., both Milam Bldg.

### Theaters

La., Monroe—James Villanti, 2303 Lovers Lane, started work on \$22,000 theatre and store bldg., 2300 S. Grand St.; brick; seat 500 persons; Frank Masling, Contr., 1510 S. Grand St.

Okla., Hobart—Judge James R. Tolbert started work on Kiowa Theatre to be leased to The Griffith Amusement Co., 700 W. Grand Ave., Oklahoma City; 1-story, 56x150 ft., brick, stone and rein. conc.; Shirley & Rhoades, Contrs., Cushing; Harold Gimeno, Archt., Norman. 8-1

### Warehouses

D. C. Washington—Sanitary Grocery Co., Inc., E. D. Yonker, Pres., 1845 4th St., N. E., let contract to George E. Wyne & Co., 2525 Pennsylvania Ave., N. W., for 4-story and part basement, 200x100 ft., rein. conc. warehouse, Eckington Place and R St., N. E.; The Ballinger Co., Archt., 12th and Chestnut Sts., Philadelphia. 8-15

## WANT SECTION

### THE CLASSIFICATIONS IN THIS SECTION ARE:

#### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

#### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

#### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

### Machinery and Supplies

Black Servant Mfg. Co., 2951 N. Market St., St. Louis, Mo.—Wants prices and data soon on following:

- (1) Drill—malleable, spindle head
- (2) Lathe and Shaper
- (3) Milling Machines—2.

Guyan Machine Shops (Mchy. Dealer), Logan, W. Va.—Wants prices and data on following:

- (1) Generator Set—d. c., 550 volt, direct connected to steam engine, preferably 400 kw.
- (2) Lathe—for turning steel tires and steel locomotive wheels up to 40 in. diam. and from 32 to 48 in. gauge
- (3) Loading Boom—about 40 ft. long
- (4) Motors—a. c. and d. c., 2 h. p. to 20 h. p., 220 volts
- (5) Oven (Japanning) — for baking large armature, natural gas or electric heat.
- (6) Pulleys—split steel, 12, 14, 16, and 18 in. diam.
- (7) Pumps—centrifugal, for coal mine, operated by 220-440 volt, 3 phase, 60 cycle motors and 250 volt d. c. motors.
- (8) Punch and Shear — preferably No. 1 1/2 Buffalo Universal Iron Worker
- (9) Welding Machines (Electric)—200 to 300 ampere, gasoline driven.

Mike Donlon, Lafayette, La., erecting service station—Wants prices and data on following:

- (1) Air Compressor—2-h.p. Curtis
- (2) Fire Extinguishers—2 1/2-gal., Foamite; also Pyrene
- (3) Lift (Rotary)—Curtis
- (4) Lubricating Outfits—5, 65-gal., Opace
- (5) Pumps (Gasoline)—3, 10-gal., Wayne
- (6) Sign Post (Ornamental)
- (7) Tank (Underground)—1000-gal.

R. P. Johnson (Mchy. Dealer), Wytheville, Va.—Wants prices and data on following:

- (1) Blower System—to take care of about 5 medium machines and 200-ft. of pipe
- (2) Sawmill (Short Log) — Hoosier, used, good condition.

Ditcher. — Poe Construction Co., Capers Bldg., Greenville, S. C.—Wants second hand Parson's public service ditcher or Barber-Greene ditcher, good condition.

Ram (Hydraulic).—John P. Hoyt, Esterwood, La.—Wants prices and data on hydraulic ram for raising water from 20-ft. well into elevated tank, for irrigating gardens.

Road and Building Contractors' Equipment.—W. M. Smith & Co. (Mchy. Dealer), Birmingham, Ala. — Wants to represent manufacturers of road and building contractors' equipment.

Shovel (Power).—D. W. Stewart, Box 460, Bennettsville, S. C., will develop kaolin deposit—Wants prices and data on 1 or 1 1/4-yd. gasoline, crawler type shovel.

Turbine (Steam) and Generator. — De la Howe State School, J. B. Branch, Supt., Willington, S. C.—Wants quotations from manufacturer of steam turbine and alternating generator combined, approx. 20 or 25 h. p.

Water Pumping Units.—W. G. Hesson, 814 N. Tenn. Ave., Palestine, Tex.—Wants prices and data from manufacturers of jets and units suitable for pumping water from wells.

### Miscellaneous

Air Terminal Contractors, Theodor Ahlborn, Box 794, Houston, Tex.—Wants prices and data on following:

- (1) Ambulance
- (2) Drainage System
- (3) Fire Prevention System
- (4) Plumbing
- (5) Signal System
- (6) Steel (Reinforcing).

Automobile Parts, Lubricating Oils, etc.—Carlos Almanza M. (Importer), Prat 643-649, Casilla 256, Antofagasta, Chile—Wants prices and data on spare parts, lubricating oils, etc., for automobiles; also wants exclusive agency in Antofagasta for automobile tires and tubes, greases, tools, electric articles, etc.

Container (Glass).—Charles Morris, Palacios, Tex.—Wants quotations from firms manufacturing glass laboratory supplies, etc., in a position to manufacture in quantities a specially designed glass container with the following measurements: Inside top and bottom 1 15/16 in. diam., outside at top which includes flange on cap, 2 7/16 in., flange of cap extends 3/4 in. over rim; depth, inside 2 7/16 in.; outside, 2 11/16 in.; hole through bottom of glass leading into tube 1/16 in. diam., must not be over 1/16 or less than 1/32; tube, 7/16 in. in circumference, and extends half way to top, being half as long as depth of glass; glass 3/8 in. thick.

Metal (Die-Cast).—T. W. Dees, Route No. 2, Gulfport, Miss.—Wants prices and data on die-cast metal, such as carburetors are made from.

### Building Material and Equipment

Guerin Investments, Inc., Melbourne, Fla., wants prices and data on following for 2-story dwelling:

- Floor Tile
- Marble
- Roofing Tile

A. S. Bergendahl, Engr.-Archt., 114 1/2 Main St., Houston, Tex., wants prices on following for office bldg. remodeling.

- Electric Refrigerators
- Elevators
- Flooring—terrazzo, tile, composition
- Mail Chutes
- Metal Doors
- Roofing—built-up
- Steel Sash and Trim
- Tile—gypsum, hollow, interior
- Ventilators
- Wire Glass
- Brass and Bronze Work.

J. P. Annan, Archt., Slattery Bldg., Shreveport, La., wants prices on following for \$18,000 store and apartment:

- Electric Refrigerator
- Floor Tile
- Metal Ceilings
- Plaster Board
- Roofing—built-up
- Steel Sash
- Ventilators and Skylights

Livesay & Wiedemann, Archts., San Jacinto Life Bldg., Beaumont, Tex., want prices on following for \$100,000 church and Sunday school:

- Cast Stone
- Flooring—tile, composition
- Roofing (flat)—asbestos shingle, built-up
- Tile—hollow
- Ventilators.

E. H. Eads & Co., Archts., Chickasha, Okla., want prices on following for \$18,000 school, Sedan, Okla.:

- Cast Stone
- Flooring—hardwood
- Metal Ceilings
- Plaster Board
- Roofing—built-up
- Tile—hollow

Woodland Methodist Church, Rev. H. I. Robertson, Pastor, Houston, Tex., erecting \$65,000 building and requires prices and data on:

- Floors—tile
- Hollow tile
- Limestone
- Rolling Partitions
- Ventilators.

W. R. Ellis (Gen. Contr.), 46 Sunflower Ave., Clarksdale, Miss., wants prices on following for Carnegie library, Clarksdale:

Floor—4300 sq. ft., mastic, layer of building felt to be laid where noted on wood floor, over plain chicken wire, well nailed to wood floor and having 3/4 in. magnesite over wood floor and finished with 3/4 in. mastic waxed and finished according to manufacturers specifications.

G. W. Mitchell Construction Co., Builders Exch. Bldg., San Antonio, wants prices and data on following for office and store building, Crystal City, Texas:  
**Linoleum and terrazzo**  
**Hollow Tile**  
**Hardware—brass**  
**Ventilators**

### Bids Asked

**Blades (Power Hack Saw) and Door Closers.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Sept. 3 for 141 power hack saw blades and 96 door closers, delivery Quantico, Va.

**Bridges, etc.**—State of Louisiana. Bids for 3 bridges, etc. See Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—Excelsior Springs, Mo. Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

**Bridge.**—Charleston, W. Va. See Construction News—Roads, Streets, Paving.

**Bridge.**—Batesville, Miss. See Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Elkton, Md. See Construction News—Bridges, Culverts, Viaducts.

**Dikes and Revetment.**—Missouri. See Construction News Columns—Miscellaneous Construction.

**Dikes.**—St. Charles, Mo. See Construction News Columns—Miscellaneous Construction.

**Dikes and Revetment.**—Brunswick, Mo. See Construction News Columns—Miscellaneous Construction.

**Dredging.**—New Orleans, La. See Construction News Columns—Drainage, Dredging and Irrigation.

**Fill, etc.**—Belzoni, Miss. See Construction News—Roads, Streets, Paving.

**Furniture.**—County Auditor, Dallas County, Dallas, Tex.—Bids Sept. 5 for steel furniture to equip State Hwy. Div. Engrs.' Office, Hall of Records Bldg.

**Grading.**—U. S. Engineers Office, L. V. Frazier, Lt. Col. Corps Engrs., Dist. Engr., Jacksonville, receives bids Sept. 20 for grading portion of U. S. Reservation, Moss Bluff, Fla.

**Gravel.**—Humphreys County Bd. of Supvrs., A. R. Hutchens, Clk., Belzoni, Miss. Bids Sept. 2 for 200 cars gravel, for Road Dist. No. 1; 50 cars gravel, for Road Dist. No. 5.

**Levee.**—Texas — See Construction News Columns—Miscellaneous Construction.

**Machine Tools.**—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Bids Sept. 3 for turret lathe, drilling and milling machines.

**Meat Slicing Machine, etc.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Sept. 5 for meat slicing machine, etc., delivery Quantico, Va.

**Miscellaneous.**—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Bids Sept. 3 for following: Door checks, Diesel engine, locks, acetone, silver-nitrate, hardware, escutcheon pins, delivery Navy Yard, Charleston, S. C.

**Miscellaneous.**—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Sept. 13 for following, Sch. 1986:

12 automobiles, 23 automobile trucks, 12 electric water coolers, electric refrigerator, lifeboat, 24 water closet bowls, 232 water closets, 100 lavatories, 66 kitchen sinks, etc.

**Miscellaneous.**—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Sept. 4 for following, Sch. 1985:

Wire rope, copper wire, power transmission crossarms, locomotive springs, electric refrigerators, wheelbarrows, enameled brick, plate glass, condenser tubes, etc.

**Pipe (Reinforced Concrete)**—See Sewers.

**Paving.**—Edmonston, Md. See Construction News—Roads, Streets, Paving.

**Paving Material.**—Dallas County, Charles E. Gross, County Auditor, Dallas, Tex. Bids Sept. 5 for amiesite, asphalt, bitulithic, etc., paving material; prices, f. o. b. Dallas and various points in Dallas County, in ton lots.

**Paving, etc.**—Amarillo, Tex. See Construction News—Roads, Streets, Paving.

**Plumbing Fixtures, etc.**—Treasury Dept., office of Supervising Archt., Washington, D. C.—Bids Sept. 19 for additional plumbing fixtures, etc., U. S. Marine hospital, Mobile, Ala.

**Propeller Blades (Aircraft).**—Bureau of

Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Sept. 3 for delivering metal propeller blades to Inspector of Naval Aircraft, U. S. N., care Glenn L. Martin Co., Leland & Ponca St., Baltimore, Md.

**Pumps (Sewer).**—Sewerage and Water Bd., New Orleans, La.—Bids Oct. 16 for Contract 202-S, furnishing pumps for sewer stations Nos. 17, 18 and B; plans, etc., at office of board.

**Pumping Station etc.**—Annapolis Water Co., Frank H. Thompson, Sec.-Treas.; Walter C. Munroe, Ch. Engr., Municipal Bldg., Annapolis, Md.—Bids Sept. 16 for Contract No. 1, Project C, constructing filter and pumping station building; work includes building, 86x70 ft., complete with foundations and superstructure of conc., brick and steel, lighting, heating and plumbing and excavation, installation of valves, pipes, special castings and appurtenances; contract does not include filter equipment.

**Refrigerator (Mechanical).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Sept. 4 for mechanical refrigerator, delivery Washington, D. C.

**Revetment.**—Missouri. See Construction News Columns — Miscellaneous Construction.

**Road.**—Excelsior Springs, Mo. See Construction News—Roads, Streets, Paving.

**Road.**—Hinton, W. Va., Bids for 2 roads. See Construction News—Roads, Streets, Paving.

**Road.**—Linden, Ala. See Construction News—Roads, Streets, Paving.

**Road.**—Eutaw, Ala. See Construction News—Roads, Streets, Paving.

**Roads.**—Belzoni, Miss. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—Charleston, W. Va., Bids for 10 roads. See Construction News — Roads, Streets, Paving.

**Roads.**—Mobile, Ala. Bids for 4 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Alabama. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Maryland. Bids for 4 roads. See Construction News — Roads, Streets, Paving.

**Roads.**—Natchitoches, La. — Bids for 2 roads. See Construction News — Roads, Streets, Paving.

**Road-Building Machinery and Equipment, etc.**—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Sept. 6 for following, Sch. 1987:

Road-building machinery and equipment, transformers, gravel screening and washing plant, slack-line cableway excavator.

**Sewers.**—Bd. of Awards, Baltimore, Md.—Bids Sept. 3 for storm drains in Sewer Dist. No. F-10, Storm Water Contr. No. 132; 2200 ft. of 10x5 ft., and 458 ft. of 6x4 ft., 573 ft. of 5x4 ft., rectangular section brick and conc. drain; 28,000 sq. ft. of vit. linear plates or vit. brick; manholes; 13,500 cu. yds. earth excavation; Milton J. Kuark, Sewerage Engr.

**Sewers.**—City of Miami Beach, Fla., C. W. Tomlinson, Clk.—Bids Sept. 4 for sewers, SR-126; 7250 ft. of 8-in., 678 ft. of 10-in., 4361 ft. of 12-in., 938 ft. of 15-in. and 300 ft. of 18-in. terra cotta or conc. sanitary sewer; rock and conc. foundation; rein. steel; drain tile, etc.; Ed. R. Neff, City Engr.

**Sewers.**—City of Parkersburg, W. Va., J. V. Dunbar, City Engr.—Bids Sept. 3 for 42-in. storm sewer on Briant St., 16th St., etc.; work includes 1250 ft. of 42-in. rein. conc. pipe or segment block; 100 ft. 15-in. and 100 ft. of 12-in. vit. tile, catch basins, etc.

**Sewers.**—City of Catlettsburg, Ky., Gardner D. Ewing, Clk.—Bids Sept. 2 for sanitary sewer, vit. tile or conc. 8, 10 and 12-in. diam., along east side of Block No. 4, Jones Addition.

**Sewers.**—City of Cumberland, Md.—Bids Sept. 3 for Tilghman St. storm sewer, work includes 440 ft. of 24-in., 60 ft. of 15-in., terra cotta sewer; catch basins.

**Sewers.**—Easton Utilities Comsn., S. E. Shannohan, Sec., Easton, Md., E. G. Kastenhuber, Jr., Town Engr.—Bids Sept. 16 for sewer extension; 17500 ft. of 8-in. to 12-in. pipe sewers together with manholes, flushing manholes and house connections.

**Screens.**—Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids Sept. 4 for screens at Quantico, Va.

**Sewers.**—City of Kenedy, Tex., John W. Thames, Mayor.—Bids Sept. 24 for extension to sewer system, sewer disposal plant and appurtenances; Hasie Engineering Co., Engr., 310 Burt Bldg., Dallas.

**Street.**—Baltimore, Md. See Construction News—Roads, Streets, Paving.

**Street.**—Houston, Miss. See Construction News—Roads, Streets, Paving.

**Street.**—McComb, Miss. See Construction News—Roads, Streets, Paving.

**Street.**—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

**Tractor.**—Humphreys County Bd. of Supvrs., A. R. Hutchens, Clk., Belzoni, Miss. Bids Sept. 2 for crawler-type tractor for Road Dist. No. 5.

**Valves.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Sept. 4 for valves, delivery Quantico, Va.

**Water Heater.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Sept. 6 for water heater, delivery Parris Island, S. C.

**Water Mains.**—Bd. of Awards, Baltimore, Md.—Bids Sept. 3 for excavating trenches and laying mains in Leland Ave. from Clinton St. to point 1200 ft. east; E. G. Rost, Water Engr.

**Water Works Improvements.**—City of Lafayette, La., J. Gilbert St. Julian, Mayor —Bids Sept. 20 for furnishing labor, material and equipment, construction of water filtration plant, pump, wells, repairs to pumps, water meters installed and accessories in and for city; work includes: 1,500,000 gal. filter plant, 200,000 gal. reservoir, deep well with pump, wash water pump, 1500 water meters and installation, pipe line extensions and additions, accessories; J. B. McCrary Co., Citizens & Southern Bk. Bldg., Atlanta.

**Wharf Repairs.**—New Orleans, La.—See Construction News Columns—Miscellaneous Construction.

**Woodworking Machinery.**—Quartermaster, Camp Knox, Ky.—Bids Sept. 5 for ball bearing planer matcher and moulder and double spindle horizontal radial borer.

### Trade Literature

**Belt Conveyors.**—New Applications and Set-Ups is the title of a booklet issued by the Barber-Greene Company, Aurora, Ill., manufacturers of standardized material handling machines. The publication treats of handling wet concrete with belt conveyors on construction jobs on which the Barber-Greene conveyors are being used.

**Diesel Engines and Diesel Powered Draglines.**—The Page Engineering Company, Chicago, Ill., is distributing its new Bulletin 800 on Page Diesel engines and Diesel powered draglines, which presents in detail specifications and descriptions of these machines, with illuminating illustrations, some of the latter showing the machines in actual operation.

**Venetian Electro-Kabinet.**—A folder by the Economy Electrical Manufacturing Co., Kansas City, describes in detail and illustrates various features of the Venetian Electro-Kabinet, a product of this company, which is said to combine three important factors in medicine cabinets—beauty, utility and economy. This cabinet is claimed to save the builder three outlets and two light fixtures.

**Circuit-Breakers.**—The Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., is distributing circular 1852, a four-page booklet on types F-24 and F-24-R oil circuit breakers for medium interrupting capacity usage. These breakers for indoor use, manually or electrically operated, are made in 2, 3 and 4-pole arrangements with current ratings of 400, 600 and 800 amperes.



**Tank Heads and Tank Specialties.**—The Commercial Shearing & Stamping Company, Youngstown, Ohio, maker of heavy stampings, is distributing its latest catalog on tank heads and tank specialties. The publication is of special interest to builders of tanks.

**Centrifugal Compressors and Blowers.**—A new catalog on centrifugal compressors and blowers issued by the De Laval Steam Turbine Company, Trenton, N. J., illustrates the uses of centrifugal machinery in various fields. Turbine-driven blast furnace blowers rated at 60,000 cubic feet per minute against 30 pounds maximum pressure at 2800 r.p.m. are shown, as are single and multistage blowers and boosters for use in water gas plants and in connection with coal gas retorts and coke ovens. A feature of the catalog is a concise presentation of the mechanics and thermodynamics of the compression of gases and the physical properties of industrial gases, with illustrative examples worked out in detail.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### Whiting-Swenson Company Service.

For the development of evaporation and heat transfer equipment, the Whiting Corporation and the Swenson Evaporator Company, both of Harvey, Ill., have maintained an evaporator experiment station at Ann Arbor, Mich., under the direction of Prof. W. L. Badger. To better handle the service, the Whiting-Swenson Company was organized to carry out research development and engineering for the process industries, with Prof. Badger heading the company. A strong staff of associated engineers, specialists in their fields, offer their service in engineering research, pilot plant operation, complete plant design and engineering consultation.

### Universal Power Shovel Factory to Milwaukee.

The Universal Power Shovel Company, a division of the Unit Corporation of America, has moved from Detroit, Mich., into its new plant at Milwaukee, Wis. Equipment has been augmented by the installation of much new and modern machinery. Straight line assembly operations have been installed and scientific production methods have been applied to the manufacture of a new line of gasoline power shovels, cranes, clamshells, draglines and backfillers. Executive offices will be maintained in the Bankers' Building, Milwaukee, and a branch office at 462 Book Building, Detroit.

### Stockland Cut-Lift-Roll Blade.

An outstanding feature of the Stockland road grader is the original Stockland cut-lift roll curved blade. It is said to cut down into the soil, lifting the earth up where it is rolled ahead and quickly delivered at the end of the blade. Due to suction created by the blade in the soil, a downward pressure is said to be exerted on the four wheels of the grader, which prevents skidding. The Stockland grader is manufactured by the Foote Bros. Gear & Machine Company, Chicago, which recently took over the Stockland Road Machinery Company, Minneapolis, Minn.

**Economic Service.**—A brochure describing the Economic Service of the Metropolitan Life Insurance Company, New York, gives the details of the various projects consummated by the Policyholders Service Bureau of that organization. Such major projects as the Southern Sales Conference, the Shifting of Industry, the California Grape Survey and various Metropolitan researches into industrial health and safety are described and space is also devoted to an account of the establishment of the national index of labor turnover which was recently taken over as a government function.

**Cletracs for Road Building.**—The Cleveland Tractor Company, Cleveland, Ohio, manufacturers of Cletrac crawler tractors for farm and industrial uses, is distributing a new mailing piece and broadside combined, featuring the use of Cletracs for road construction, maintenance and dirt moving operations.

### Full Line Carborundum Products to be Displayed at National Metals Exposition.

The Carborundum Company of Niagara Falls, N. Y., has planned a comprehensive display of its products at the National Metals Exposition at Cleveland, September 9-13. The exhibit will include a complete display of Carborundum and Alexite Grinding Wheels, Alexite TT Polishing Grains, Alexite Cloth, Alexite-Redmanel High Speed Grinding Wheels and Alexite AA Tool Room Grinding Wheels. The abrasive section of the Carborundum Exhibit will be in charge of S. F. Courter, General Sales Manager. The Refractory section of the Carborundum Exhibit will include a complete showing of Carborundum Brand Refractory products such as hearts and supports for heat treating furnaces, muffles, tile, brick and cements. The Refractory Division will be represented at the exposition by C. E. Hawke, Sales Manager. Globar Corporation of Niagara Falls, N. Y., a subsidiary of the Carborundum Company, will have an interesting display of various types and sizes of Globar Non-Metallic Heating Elements for industrial furnaces.

### Standard Uniclosed Motor.

Introduced as one of its standard motor designs, the Uniclosed motor, manufactured by the U. S. Electrical Manufacturing Co., Los Angeles, Cal., while not totally enclosed is said to offer the desired enclosing features, having a pressed steel housing. It embodies a dual fan blast, auto-start principle, asbestos protection, solid die-cast aluminum motor and ball-bearing application. The active unit is shielded and protection is provided for moving parts and for electrical windings.

**Making Primers.**—An explosive service bulletin entitled Making Primers is being distributed by the E. I. du Pont de Nemours & Company, Wilmington, Del. It supplements a bulletin released in July entitled Placing the Detonator to Get the Best Results and presents a number of figures illustrating the best methods of making primers.

### Sale of Navy Surplus Material.

The United States Navy Department, Washington, announces the sale at 10 o'clock Saturday, September 11, by public auction, of navy surplus and surveyed material, consisting of the following: 6,237,000 (approximately) ferrous metals, 640,000 (approximately) non-ferrous metals, diving apparatus, clocks, radio material, motors, lathes, locomotive, binoculars, generators, electrical material, trucks, hand planers, hardware, miscellaneous items of instruments of precision and many other items. Catalog 649-A, presenting details and descriptions, terms of sale and other information, may be obtained from the Supply Officer, Navy Yard, or from the Bureau of Supplies and Accounts, Navy Department. Gus Elchberg, 462 Pennsylvania avenue, Washington, will be the auctioneer.

### Order for Moore Dry Kilns.

The Moore Dry Kiln Company, Jacksonville, Fla., affiliated with the Moore Dry Kiln Company, North Portland, Ore., recently booked an order from the J. Neils Lumber Company, Libby, Mont., for two additional reversible cross circulation internal fan kilns, making the second repeat order from this firm. The kilns are 11.4 feet wide and 104 feet long, of charge type end and tile and concrete construction, equipped with automatic temperature and humidity controls and high powered air circulating system. They will be used for drying Ponderosa pine, Idaho white pine and Montana larch.

### Goodyear Rubber Reclamation Plant.

The new rubber reclamation plant at Gadsden, Ala., of the Goodyear Tire & Rubber Company, which is to start early in September, will have 6,000,000 pounds, 150 carloads, of used tires on hand to begin initial operations. Daily needs of the plant will be about 100,000 pounds of tires. Reclaimed rubber is said to be desirable for use in mechanical goods and practically all the product of the Gadsden plant will be sent to Akron for that purpose.

### Installing Heat Treating Equipment.

The Fairmont Manufacturing Company, Fairmont, W. Va., operating aluminum rolling mills, is installing an electric heat-treating furnace to handle the largest commercial duralumin sheets. The installation, which is practically complete, is being handled by the Gas Equipment Engineering Company, Philadelphia. A sheet stretcher furnished by the Southwark Foundry and Machine Company, Philadelphia, has also been installed.

### Recent Death of Roland Gerry.

Resigning as a director of the Jones & Laughlin Corporation, Pittsburgh, Pa., in 1925 to devote his attention to private interests, Roland Gerry, who has since resided in Pittsburgh, died in that city on August 9. He was widely known in the steel industry, holding membership in the American Iron and Steel Institute for a score of years and participating actively in its affairs.

### Switch Houses for Power Company.

The Florida Public Service Co., Orlando, recently ordered from the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., six switch houses to be installed in the Winter Garden division. The houses will be of standard steel construction, with panel mounted equipment inside, and a superstructure frame work, with disconnecting switches mounted above the house.

## 5-Mile Toll Bridge Project Finished

Structure Across Mississippi at North St. Louis Shortens Distance to Chicago and the Northeast

The Chain of Rocks-Kingshighway Bridge, spanning the Mississippi river in North St. Louis, was recently opened to traffic. It is now possible to reach the main highways of Illinois and Missouri without passing through the congested districts of St. Louis and the towns on the east side of the river where there are many grade crossings; a better connection is provided to the Granite City, Ill. industrial district and time and mileage is reduced to Chicago and the Northeast.

The bridge is of steel construction with concrete substructure and pavement, having a total length of 5350 feet, consisting of the following: Through trusses, 1—150 feet and 5—200 feet; cantilever spans, 8—350 feet and 2—700

Roadway on the bridge is 20 feet wide in the clear. There were also constructed four miles of roads in Illinois to connect with Illinois State Highways No. 3 and 4 and United States Highway No. 66. The roadway consists of a 20-foot concrete slab with shoulders 10 feet wide. Both the road and bridge are electrically lighted.

The project was built by the Chain of Rocks Kingshighway Bridge Co., organized under the laws of Delaware, and headed by John R. Scott, president; Thomas J. Scott, vice-president, and Wm. B. Kinealy, secretary. It is a toll project, and during the first 10 days of operation the traffic was heavier than anticipated. Engineers were Baxter L. Brown and Edward B. Fay of St. Louis. Coverdale & Colpitts, consulting engineers of New York, made a detailed study of anticipated income from traffic, probable growth of traffic, etc. The enterprise was financed by H. M. Byllesby & Co. and Rollins & Co., of Chicago.

Principal contractors on the work were:

**Substructure**—Union Bridge & Construction Co., Kansas City

**Superstructure**—American Bridge Co., New York and Philadelphia

**Roadway**—Keeley Bros. Construction Co., East St. Louis, Ill.



Chain of Rocks-Kingshighway Bridge

Eliminates passing through congested districts of St. Louis and towns on the east side, when on way to main highways of Missouri and Illinois.

feet. Main channel spans have a clearance of 55 feet above the highwater of 1844, the highest on record. Approach spans are built on a grade of 2.5 per cent and all spans clear the high water line of 1844. Nine piers rest on rock foundation; the two abutments and six piers are on concrete pile foundations.

### Kentucky Third in Coal Production

Kentucky retained its place as the third largest bituminous coal producing state in the country in 1928, according to the United States Bureau of Mines. Total production for the year amounted to 61,860,379 net tons, valued at \$96,722,000, of which 45,583,163 tons was accounted for by eastern Kentucky and 16,277,216 tons by western Kentucky. In comparison with the 69,123,998 tons produced in the preceding year, the output for 1928 shows a decrease of 10.5 per cent. Harlan County, the principal producing

county in the state, however, shows a substantial gain in production, increasing its output from 13,667,443 tons in 1927 to 14,427,444 tons in 1928. As was evident in other important coal-producing states, the general tendency in Kentucky has been toward concentration of output in the larger and more efficient producing units with the number of active mines of commercial size being reduced by nearly 100 in 1928.

### Florida Factory to Make Paint and Lacquers

The Eternal Paint & Lacquer Corp., Mount Dora, Fla., was recently organized to manufacture paints and lacquers and to develop new processes for making certain classes of paints and lacquers. Among its stockholders are C. E. Perkins, Dr. R. W. Dickson, Dr. O. L. Callahan and E. E. Truskett. The plant to be established at Mt. Dora, it is said, will be followed by the establishment of headquarters and a factory in Jacksonville and probably a Northern branch, either in Baltimore or Philadelphia. The corporation is said to own processes which make it possible to use turpentine in lacquers and at the same time making it more durable under weather conditions; also a process to render lacquer rustproof on steel under all weather conditions, and another process for making paint for wood and steel boats, to prevent weeds and barnacles from growing on the hulls. In addition to its other products, the company will manufacture a quick-drying pavement marking paint.

### \$15,000,000 Increase in Louisiana State Banks' Resources

Louisiana's 193 state banks increased their resources by \$15,000,000 during the year ending June 29, according to the State Banking Department. Total resources amount to \$421,494,477. There was an increase in investments in bonds, stocks and securities of \$8,500,000; increased surplus and undivided profits of \$3,000,000; and a decrease in bills payable and rediscounts of \$8,500,000.



Chain of Rocks-Kingshighway Bridge, Spanning the Mississippi River From a Point Near Chain of Rocks



## Reorganization of Cotton Seed Industry

Prospects Brighter for Fair Return on Capital Invested Than Ever Before

By LEHMAN JOHNSON, Cotton Seed Specialist, Memphis, Tenn.

Final steps have been taken in a complete reorganization of the cotton seed industry. The new National Cotton Seed Products Association, embracing the old Inter State and the work previously done by many of the state associations, born at New Orleans July 8, has now emerged at Memphis from its cradle, with every promise of success, to lift the cotton seed industry out of the ruck of despised by-products industries up to the high plane which steel manufacture has reached in the business world.

With the perfection of the plans made, capital which has long shied at investment—and very properly—in an industry miscondacted as this has been in the past, may well now lend its aid in the new development with every promise of satisfactory returns.

I do not hesitate to say that during the 40 years and more that I have been connected with this industry as an independent chemist and cotton seed specialist the prospects for fair return on capital invested were never better. There never has been a time when if the industry had been organized and all its elements had worked together to obtain from the actual ultimate consumer as fair prices for the fat and protein (technical terms for the oil and meal) of the cotton seed as the fat and protein from competing products were bringing, that fair profit for all might not have been obtained. There was neither order, organization, good will nor cooperation anywhere in the industry. There was cut throat competition among the refiners each seeking to give the consumer the oil or fat from the cotton seed ever and ever cheaper. Now under the guidance of the Federal Trade Commission the refiners have adopted a Code of Ethics which enables them to cut out cut throat competition among them and for the first

time demand and obtain from the actual ultimate consumer what this fat is really worth. The margin of manufacturing expense and profit between producer and consumer has been widened without injustice to the producer and with no more injustice to the consumer than requiring him to pay fair prices for this fat in proportion to other fats.

Similarly under the guidance of the Federal Trade Commission the oil millers have passed and put partially in force a Code of Ethics of their own which will effect many economies, cut out cut throat competition among them and secure them a satisfactory margin of profit without that bane of the industry, speculation, without which, up to and including the past season, no profit could be made or expected in oil milling.

There was no open public market for either cotton seed or cotton seed meal. The oil miller could not hedge his purchases of seed. He had no open market in which to sell his meal for future delivery. He must sell or carry the actual goods and if he guessed wrong his final figures were in red and not black. Whether the figures of oil mills under such conditions were black the manager deserved no undue praise, and whether they were red he deserved no undue censure.

Our Memphis Merchants Exchange has provided the first public open market for cotton seed the world has ever seen. It has a similar open market for cotton seed meal. New York and New Orleans have open markets on their exchanges for refined oil. We need but similar markets on similar exchanges for crude cotton oil, linters and hulls, to have the cycle complete and every semblance of speculation removed from the conduct of an oil mill if the manager cares to avail himself of the facilities that have been

and will be offered him for hedging all his important transactions.

It is well known to all investors that seasons of damaged oil and seed from climatic conditions have been highly profitable to oil mills.

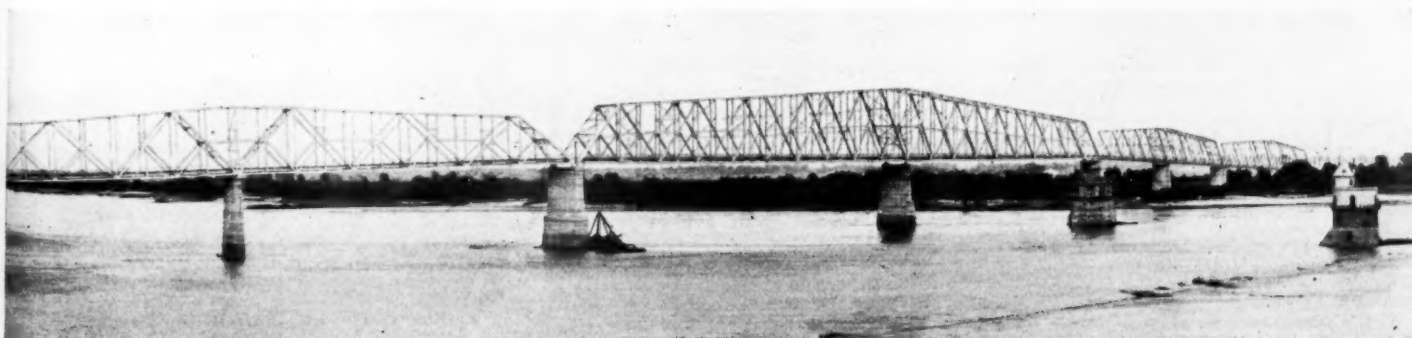
Perhaps that is the reason or one of them why they have been content with no, or but small profit, in seasons of good oil and seed. This chance for extra profit remains with rules unchanged for this year should there be much of bad seed and oil but the ultimate result of the highly important changes described above must be to make reasonable profit possible on good seasons (which occur much oftener than bad ones) and proportionately reduce the extra profit of bad seasons.

The two Codes of Ethics adopted respectively by the refiners and the oil millers, the open future markets for oil, meal and seed, the unification of control in a single national organization, are my reasons for believing that capital may now well take a different attitude toward this industry and investors and possible investors need not send their savings to Europe or South America for investment when we have now so promising a field for investment at home and at our doors.

### Equality For Sugar Industry

The San Francisco Chronicle estimates that if the tariff on sugar was increased to the full amount proposed in the Hawley bill, the average cost per individual would be only 50 cents a year. That is indeed a small sum to pay when the result would mean opportunity to produce a valuable agricultural crop which employs many workers and returns so much to the soil.

If we do not wish our sugar supply to be under foreign control, a sufficient tariff must be levied to allow our home industry to compete on an equal basis with foreign production.—*The Manufacturer and Industrial News Bureau, Portland, Ore.*



in North St. Louis, Has a Total Length of 5350 Feet With a Four-Mile Roadway Approach in Illinois.

# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Mobile—School—Mobile County Bd. of Revenue plans receiving bids for \$100,000 bonds; lately voted rejected bids for bonds. 8-22

Ark., Fort Smith—City, T. F. Baker, Mgr., considering \$182,000 bond election to improve fire dept. and for new equipment. 8-8

Ark., Jonesboro—Courthouse—Craighead County, A. D. Weems, County Judge, votes Aug. 31 on probably \$225,000 bonds. Lately noted votes Aug. 27 on bonds. 8-8

Ark., Little Rock—City, Pat L. Robinson, Mayor, voted \$555,000 bonds; \$200,000, municipal airport; \$300,000, fire fighting equipment; \$55,000, annex and equipment for General Hospital; lately noted to vote \$2,652,500 bonds. 8-1

Ark., Monticello—Water—City plans bond election. 8-1

Ark., Monette—City voted sewer and water bonds; John Hancock, Mayor. 8-1

Fla., Inverness—City, Geo. T. Condrey, Clk., receives bids Sept. 10 for \$25,000, tax certificates. 8-1

Fla., New Smyrna—New Smyrna Inlet Dist. voted \$250,000 bonds. 8-1

Fla., Pensacola—City plans issuing \$190,000 refunding bonds. 8-1

Fla., St. Petersburg—Improvement—City, H. T. Davis, Dir. of Finance, receives bids Sept. 2 for \$25,000, 5 1/4%, \$1,000 denom. bonds. 8-1

Ga. Nahant—Courthouse—Brantley County Commrs. of Roads and Revenues, Jos. B. Strickland, Sec., receive bids Sept. 3 for \$35,000, 5% bonds. 7-18

Ky., Ashland—City, John Kobs, Supt. of Public Works may vote Nov. 5 on \$75,000 bonds, road widening and overhead crossing. 8-1

Ky., Murray—Jail—Calloway County, T. R. Jones, Judge, votes Nov. 5 on \$40,000 bonds. 8-1

Ky., Newport—Water Revenue—City, Henry Asplan, City Recorder, receives bids Sept. 17 for \$100,000, not to exceed 6% bonds. 8-1

La., Bogalusa—City, P. O. LeBlanc, Sec., will sell, first week of Oct., \$350,000 bonds: \$250,000, street; \$100,000, school; H. E. Willis, City Engr. 8-22

La., Forest Hill—Improvement—City voted \$50,000 bonds. 8-22

La., Leesville—Road—Vernon Parish, Sub-Road Dist. No. 1, of Road Dist. No. 6, votes Sept. 10 on \$50,000 bonds. 8-22

La., Many—Sabine Parish Police Jury, J. M. Abington, Sec. receives bids Sept. 24 for \$15,000, not to exceed 6% Road Dist. No. 12 bonds. 8-22

La., Natchitoches—Airport—City voted \$35,000 bonds. 6-27

Md., Cumberland—City, Frank Billmeyer, Commr. of Finance and Revenue, receives bids Sept. 5 for \$100,000 5% \$1000 denom. flood prevention notes: \$75,000, of 1927; \$25,000, of 1929. 8-1

Md., Thurmont—Light Plant—Town voted \$9,000 bonds; Frank L. Cady, Pres. Bd. of Commrs. 8-1

Miss., Greenville—City, Fred Shelben, Mayor, plans receiving bids soon for \$370,000 bonds: \$225,000, school; \$125,000, drainage and sewerage; \$20,000, public library. 8-15

Miss., Lawrenceburg—Sewer—City votes Oct. 4 on \$125,000 bonds. 8-15

Miss., Meridian—City, W. W. White, Clk., Treas., plans selling \$13,474 bonds for street improvement. 8-15

Mo., De Soto—Sewer—City, H. W. Harris, Clk., votes Sept. 3 on \$110,000 bonds. 8-15

Mo., Jefferson City—Highway—State, Sam A. Baker, Governor, plans receiving bids in Sept. for \$7,500,000 or \$10,000,000 of \$75,000,000 bonds, voted last Nov. 11-8-1928

Mo., Poplar Bluff—Water—City receives bids Sept. 3 on \$100,000 improvement bonds. 8-15

Mo., Webb City—Paving—City Council considering \$60,000 bond election. 8-15

Mo., West Plains—Courthouse—Howell County votes Sept. 24 on \$125,000 bonds; G. B. Burgess, Presiding Judge. Lately noted defeated bonds. 7-11

N. C., Gastonia—City receives bids Aug. 30 for \$75,000 bonds for soldiers and sailors memorial building. 8-1

N. C., Lexington—School—Davidson County Commrs., Grant Raker, Clk., receives bids Sept. 3 for \$82,000, not to exceed 6% bonds. 7-25

N. C., Raleigh—Sewer—City, J. E. Sawyer, Clk., plans selling \$100,000 bonds. 7-25

N. C., Wilmington—New Hanover County Commrs., Thos. K. Woody, Clk., plans issuing \$252,000 school funding bonds. 7-25

Okla., Enid—School Bd. plans \$300,000 bond issue; George D. Wilson, Pres. 8-15

Okla., Hollis—Water—City voted \$48,000 bonds; plan selling at once. 8-15

Okla., Putnam City—Dewey County Consolidated School Dist. No. 1 votes in Sept. on \$30,000 bonds. 8-15

Okla., Tulsa—General Improvement—City, Dan W. Patton, Mayor, plans about \$5,000,000 bond election; K. R. Teis, City Engr. 8-15

South Carolina—Capital Highway Dist. Commrs., Richland, Lexington and Saluda Counties, W. B. Crouch, Chmn., Saluda, receive bids Sept. 3 for \$500,000 not to exceed 5 1/4% highway bonds. 7-25

S. C., Anderson—City considering \$300,000 bonds: \$200,000, indebtedness; \$50,000, aircraft; \$50,000, street. 7-25

S. C., Camden—Highway—Kershaw County Bd. of Directors, Laurens T. Mills, Clk., receives bids Sept. 10 for \$290,000, 5 1/2%, \$1,000 denom. bonds. 7-25

S. C., Greenwood—Bd. of Trustees, School Dist. No. 18, Greenwood County, W. E. Black, Sec., receives bids Sept. 11 for \$95,000, 4 1/2% and 5% bonds. 7-25

S. C., Lancaster—Highway—Lancaster County Commrs., K. W. Yoder, Clk., postponed sale of \$450,000 not to exceed 5% coupon bonds until about Oct. 1; will re-advertise later; lately noted bids Aug. 12. 8-1

Tenn., Mount Pleasant—City Hall—City plans selling \$10,000 bonds. 8-1

Tenn., Memphis—City, D. C. Miller, Clk., receives bids Sept. 24 for \$865,000 bonds: \$450,000, general improvement; \$150,000, fire dept.; \$100,000, sewers, drains; \$165,000, street. 7-25

Tenn., Paris—Highway—Henry County, D. T. Spaulding, County Judge, receives bids Sept. 2, for \$60,000, 6% bonds. 7-25

Tex., Big Spring—Road—Howard County considering bond election. 8-15

Tex., Corpus Christi—Road—Nueces County Commrs., Nat Benton, County Judge, considering bond election. 8-15

Tex., Edna—Sewer—City plans \$40,000 bond election. 8-15

Tex., Fort Worth—School—City may vote in Oct. on bonds; M. H. Moore, Supt. of Schools. 8-15

Tex., Hansford—Road—Hansford County votes Sept. 12 on bonds. 8-15

Tex., Highland Park, Dallas—City votes Sept. 14 on \$75,000 5% bonds for library and art gallery. 8-15

Tex., Kermit—Road—Winkler County Commrs., Court plans \$100,000 bond election. 8-15

Tex., Mercedes—Bd. of Directors, Hidalgo and Cameron Counties Water Control and Improvement Dist. No. 9, called election for Sept. 7 on \$3,500,000 bonds: To purchase irrigation system from American Rio Grande Land & Irrigation Co.; to concrete line part of canals; extend and construct additional drainage throughout system. 8-15

Tex., Midland—Courthouse—City votes within 30 days on bonds. 8-15

Tex., Pampa—City voted \$238,000 bonds: \$100,000, city hall; \$33,000, fire station; \$20,000 parks and playgrounds; \$85,000, paving. 8-8

Tex., Pasadena—City, G. W. Conrad, Mayor, voted \$120,000 bonds: \$12,000, indebtedness; \$50,000, fire station; \$58,000, water system; \$45,000, sewer. 7-25

Tex., Port Arthur—Seawall—City, J. W. O'Neal, Mayor, plans voting in Oct. on \$2,000,000 bonds. 8-1

Tex., Port Arthur—City, J. W. O'Neal, Mayor, plans election latter part of Sept. on \$1,000,000 bonds: \$750,000, paving; \$250,000, filling in Thomas Blvd. ditch. 8-1

Tex., Stinnett—Road—Hutchinson County, H. M. Hood, County Judge, plans \$115,000 bond election; previous election failed to carry. 8-22

Va., Culpeper—Culpeper County Circuit Court, C. T. Guinn, Clk., called election for Sept. 10 on \$20,000 bonds for Cedar Mountain Dist. school. 7-25

W. Va., Charleston—Road—Kanawha County, Cabin Creek Dist., voted \$550,000 bonds. 7-25

W. Va., Elkins—Municipal Light and Power Plant—City votes Sept. 5 on \$135,000 bonds; previous election illegal. 3-21

W. Va., St. Marys—Road—Pleasants County, Union Road Dist., voted \$60,000 bonds; R. E. Griffin, Clk., County Court. 7-25

## Bond Issues Sold

Ark., Beebe—Beebe Sewer Improvement Dist. sold bonds to People's Bank of Searcy, Ark., at par. 7-18

Ark., Little Rock—Pulaski County, W. F. Siebeck, County Judge, sold \$168,000, 5% jail financing bonds to Mercantile Commerce Co., 721 Locust St., St. Louis, Mo. at par. 7-18

Ark., Little Rock—Pulaski County Bd. of Education, D. T. Henderson, Supt., sold \$100,000 Special School Dist. bonds to M. W. Elkins & Co., 217 W. Second St., Little Rock, 97.5. 8-15

Fla., Miami Beach—City, C. W. Tomlinson, Clk., reported, sold \$125,000, additional bonds, at 97, to First National Bank, Miami; to purchase Flamingo Park for municipal playground center. 8-15

La., St. Joseph—Water—Town, Josiah P. Scott, Clk., sold \$30,000, 6% bonds, jointly, to F. P. Clark & Co., Alexandria, and National City Savings Bank, Vicksburg, Miss., at par, accrued interest and \$30 premium. 8-15

Md., Mt. Rainier—Street—City sold \$130,000 6% bonds to Baker, Watts & Co., Baltimore, at par. 8-15

Miss., Corinth—Road—Alcorn County Chancery Court, Amos Bradley, Pres., sold \$200,000, 5 1/4% bonds to Saunders & Thomas, Memphis, Tenn., \$750 premium. 7-25

Miss., Summit—Town purchased its own bonds: \$10,000, city hall; \$5000, school; recently voted bonds. 7-25

N. C., Newton—Town, Loy E. Sigmon, Clk., sold \$99,000 5 1/4% bonds at \$118 premium to Ryan, Sutherland & Co., Toledo: \$49,000, funding; \$50,000, water, sewer, streets. 8-15

Tenn., Cookeville—Hydro-Electric Plant—City, W. M. Shanks, Mayor, sold \$50,000 5% \$1000 denom. bonds to Caldwell & Co., Nashville. 8-22

Tenn., Nashville—State Funding Bd. sold \$2,000,000, 5 1/4% short term notes at par plus \$425 premium, to Commerce-Union Co., Nashville, and Bankers Co., New York. 8-22

Va., Waynesboro—Town, I. G. Vass, Mgr., sold \$200,000 5% bonds jointly to Frederick E. Notling & Co., 1907 E. Main St., Richmond, Va., and Peoples National Bank, Charlottesville, at \$194,260; \$150,000, general improvement; \$50,000, water. 8-1

W. Va., Princeton—Courthouse, Jail—Mercer County Court sold \$400,000 5% bonds to Eldredge & Co., New York City, \$890 premium. 7-25

## Building and Loan Associations

Ark., Little Rock—Mutual Loan & Investment Co., capital \$150,000, chartered; Virgil C. Pettie, Pres., 112 Scott St. 8-1

Va., Newport News—Industrial Small Loan Corp., capital \$25,000, chartered; A. R. Read, Pres., Hampton. 8-1

## New Financial Corporations

Fla., Lakeland—Florida National Bank, capital \$100,000, opens this week; Willard Hamilton, of Alcorn Securities, Inc., Pres.; George E. Tribble, Asst. V.-P.; Florida National Bank, Jacksonville, V.-P.; sponsored by Alfred I. du Pont interests through their financial organization, Alcorn Securities, Inc. 8-1

Fla., Sarasota—Palmer National Bank & Trust Co., capital \$100,000, organized; John B. Cleveland, 215 Madison Ave. 8-1

La., Lake Charles—Great American Finance Co., Inc., 337 Broad St., organized; W. H. Managan, Chmn. of Bd.; M. P. Erwin, Pres.; purchased stock of Morgan Plan Bank and continue to operate business done by bank, under supervision of state banking dept. 8-1

Md., Baltimore—Banking Credit Corp., Mercantile Savings Bank Bldg., capital \$400,000, chartered; William Edgar Byrd. 8-1

Md., Frederick—People's Finance Co., capital \$20,000, chartered; Markell H. Nelson, John J. Schmidt. 8-1

(Continued on page 88)



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## FINANCIAL NEWS

(Continued from page 86)

Mo., Kansas City—Acacia National Securities Co., Inc., capital \$260,000, chartered; LeRoy Darnold, 605 Reliance Bldg.

Mo., St. Louis—Oliver Kratz Mortgage & Investment Co., Inc., 4067 S. Grand Blvd., capital \$100,000, organized; Oliver Kratz, Pres.

Mo., Versailles—First National Bank of Versailles, capital \$30,000, chartered; W. A. Buell, Pres.; Beatrice Sherrill, Cashier.

N. C., Greensboro—American Bank & Trust Co., capital \$1,000,000, chartered; Jos. J. Stone, 215 S. Davie St.

N. C., Hendersonville—Citizens Mortgage & Securities Co., capital \$200,000, chartered; C. E. Brooks, E. W. and F. A. Ewbank.

N. C., Rocky Mount—Bank of Rocky Mount, capital \$262,500, chartered; C. S. Taylor, T. A. Avera, R. B. Davis.

Tex., Houston—Sacks Bond & Mortgage Co., 408 Post-Dispatch Bldg., chartered; Louis Sacks, Pres.

Depositors of Merchants Bank & Trust, Daytona Beach, Fla., plan organizing bank with capital and surplus of \$150,000 to liquidate defunct institution; B. D. Shattford, Washington, D. C., interested.

First National Bank, Louis Bagby, Pres., and Vinita National Bank, J. E. Buffington, Pres., both Vinita, Okla., consolidated as First National Bank of Vinita, with \$80,000 capital.

First National Bank of Louisville, John M. Monahan, Pres., Louisville, Ky., acquired Farmers & Traders Bank, Ben Wile, Pres., Owensboro; First National Bank is securing number of strong banks in several Kentucky cities to be formed later into bank known as First Bank of Kentucky, with main office in Louisville; recently purchased First National Bank & Trust Co., H. E. O'Bryant, Pres., Owensboro. 8-15

North Carolina Corporation Comn., approved merger of State Industrial Bank, Claude Kiser, Pres., and Central Industrial Bank, C. C. Hudson, Pres., both Greensboro, N. C.; merger to be effective Sept. 8, under name of State Industrial Bank, at 118 West Market St., with \$300,000 capital.

Peoples State Bank of South Carolina, R. Goodwin Rhett, Jr., Pres., Columbia, S. C., will open unit of bank in Citizens Bank & Trust Co. building, Main and Caldwell St., Rock Hill, S. C.

Reliance International Corp., incorporated under law of Maryland, in process of formation, with \$50,000,000 capital; sponsored by F. A. Willard, Pittsburgh, Pa., and Ames, Emerich & Co., New York and Chicago.

Stockholders of Fourth and First National Bank and Nashville Trust Co., J. E. Caldwell, Pres. of both, Nashville, Tenn., approved merger of both banks under name of Fourth and First Bank & Trust Co., with \$4,000,000 capital, and total resources over \$75,000,000; Bd. of Directors recently approved consolidation. 6-6

Union Title & Trust Co., Zeno C. Ross, Pres., Fort Worth, Tex., recently organized, will be associated with Insurance Securities Co. group, including Union Indemnity Co., LaSalle Insurance Co., Union Title Guarantee Co., Bankers and Merchants Fire Co., and Chicago Life Insurance Co., giving Union Trust an outlet of \$25,000,000 for abstract, title insurance and mortgage loan business.

## Chemical Society Elect President for 1930.

Prof. William McPherson, Dean of the Department of Chemistry in Ohio State University, will be President of the American Chemical Society for 1930 as a result of a special election. It is announced. Dean McPherson will succeed Dr. Irving Langmuir of Schenectady, N. Y., Assistant Director of Research of the General Electric Company.

## United Gas Earnings.

United Gas Company, Houston, Tex., and controlled companies report consolidated gross revenues for the six months ended June 30, 1929, of \$6,484,749 and consolidated gross earnings of \$4,103,896. These earnings do not reflect the company's 20.7 per cent interest in Mississippi River Fuel Corporation or its holdings in Consolidated Gas Utilities Company. Completion of new pipe lines to Monterrey, Mexico, and to San Antonio, new industrial business through recent consummation of large contracts with Humble Oil and Refining Company and others and increasing production of Duval Texas Sulphur Company, another subsidiary, should result in a material increase in earnings during the final half of the year, according to announcement by President O. R. Seagraves.

## Seaboard Industrial Agent in Florida

Warren T. White, general industrial agent of the Seaboard Air Line Railway Company, Norfolk, Va., announces appointment of D. T. Daily as industrial agent for the Seaboard in Florida, vice F. L. Teuton, resigned.

The Seaboard Air Line maintains a number of industrial and agricultural representatives in the various states served by the company's lines, for cooperation with local agencies in developing the territory agriculturally and industrially. Possibilities for industrial development in Florida are considered very bright and the Jacksonville agency is maintained to assist in bringing new industries to the state.

## \$1,000,000 Telephone Building

Dallas, Tex.—Construction has been started on a new \$1,000,000 telephone exchange building here for the Southwestern Bell Telephone Co., building contract having been awarded on a cost-plus basis to the Henger & Chambers Co., local contractors. The structure will be 240 by 80 feet, 4 stories and basement, designed ultimately to be 12 stories. It will be of structural steel frame with concrete slab and brick walls. I. R. Timlin is the architect and W. J. Knight & Co., engineers, both of St. Louis, Mo. Excavation contract was awarded to the Dallas Transportation Co., while contract for 850 tons of structural steel was awarded to the St. Louis branch of the McClintic-Marshall Co., Pittsburgh, Pa., and contract for steel erection to the Petroleum Iron Works, Houston.

## Southern Building Products Company

Savannah, Ga.—Application has been made for a charter for the Southern Building Products Company, a Georgia corporation, for the construction and operation of a plant to manufacture roofing and other products for the Certain-Teed Products Corporation, St. Louis,

parent organization of the new company. The Certain-Teed company recently purchased a 50-acre site here for the construction of a \$600,000 plant to manufacture asphalt roofing of both slate and smooth surface, and miscellaneous products, including roof coating and asphalt cement, with the possibility of erecting later a felt mill and gypsum and varnish plant. The roofing plant will have a capacity of approximately 1,500,000 squares annually.

## Seaboard Mortgage Bonds

The reorganization committee of the Seaboard Air Line Railway Co. has extended until September 6 the date of receiving the company's 5 per cent adjustment mortgage bonds, in accord with reorganization plans recently announced. It is understood that 79 per cent of the total of \$25,000,000 of the bonds had been tendered up to August 16, but the committee regards it as essential that further substantial deposits of the bonds should be made if the plan is to be carried out.

Bids will be opened September 20 by the United States Engineer Office, Jacksonville, Fla., for grading a portion of the U. S. Reservation at Moss Bluff, Fla.

## New National Bank for Lakeland, Florida

Lakeland, Fla., August 24.—A national bank, known as the Florida National Bank, capitalized at \$100,000 and with a surplus of \$50,000, will open here next week. It is sponsored by the Alfred I. du Pont interests through their financial organization, the Almours Securities, Inc.

Willard Hamilton, of Almours Securities, Inc., is president and George E. Tribble, assistant vice-president of the Florida National Bank of Jacksonville, is vice-president. The board of directors includes: James G. Bright, Almours Securities, Inc.; H. G. Deen; Henry Dew, Almours Securities, Inc.; Willard Hamilton; E. B. Hardin, M. D.; J. H. Peterson; H. Mercer Richards, M. D.; George E. Tribble, and B. S. Weathers, vice-president of Florida National Bank of Jacksonville.

## Survey Market for Cotton Bags

George A. Sloan, Secretary of the Cotton-Textile Institute, New York, announces the appointment of James S. Graham to the institute staff to make a comprehensive survey of present and potential markets for cotton bags.



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## Industrial Future of South Arkansas

**S**PEAKING of the "Importance of Industrial Development in South Arkansas" at the semi-annual meeting of the South Arkansas Chamber of Commerce, held recently at Magnolia. C. C. Rockenbach, industrial commissioner of the St. Louis Southwestern Railway Lines, St. Louis, emphasized the point that the general welfare and prosperity of the region is assured in proportion to the industrial development it undergoes. Reminding his hearers that a large number of communities in South Arkansas are supported solely by the operation of a single industry, he invited attention to the fact that prosperous communities are founded on diversified industry. Such a diversification affords a safeguard against general depression in business where the community is dependent on one class of industry. Continuing, he said:

"The resources of South Arkansas upon which to build diversified industry are many and varied. Production factors and labor element are favorable and economic conditions are sound. As a matter of fact, in this very town (Magnolia) you have a textile mill that is producing its product at as low a unit cost, if not lower, than the same product

is produced in the Carolinas, where production costs are claimed to be as low as in any section of the Southeast. Of course, South Arkansas has its drawbacks from a labor standpoint in that its available native labor is inexperienced in the textile industry, but training inexperienced labor admittedly is preferable to a labor element susceptible to periodical strikes and even more serious disturbances.

"The present tendency of industries to decentralize operations as a measure toward reduction of production and distribution costs, and to establish branch plants in defined trade territories should by all means be taken advantage of by the communities of South Arkansas. The exploitation of latent resources and the development of existing markets are also of utmost importance.

"Industrial development of the community depends on the attitude of the citizens toward participation in the financing of worthy enterprises. It is deplorable that people of means seem to have a disinclination toward fostering local industries, but prefer to invest in stocks and bonds of corporations operating elsewhere; municipal bonds of other cities than those in which they live; tax exempt Government securities, and even foreign securities, which as a general rule do not yield a return exceeding five per cent. The money realized from the sale of these stocks and

bonds unfortunately is devoted to the establishment of industries and development of communities and sections other than those in which the stock and bond holders live. It should, therefore, be the first duty of every citizen to encourage morally and to assist financially the sound home industries and in that way not only benefit himself by a greater return on his investment, but bring prosperity to his community and his fellow-citizens."

### Speeches at Mississippi Valley Manufacturers and Wholesalers Conference Available in Pamphlet Form

At the Mississippi Valley Manufacturers and Wholesalers Conference held in St. Louis last spring, subjects pertinent to modern marketing and merchandising were discussed by prominent business men of that region. Subjects ranged from prophecies regarding the valley's future, to up-to-date merchandising from the manufacturer and wholesaler point of view. In all there were ten addresses which the policyholders Service Bureau of the Metropolitan Life Insurance Company has published in pamphlet form. Copies are available from the bureau at One Madison Avenue, New York.

### Corporate Financing Arranged

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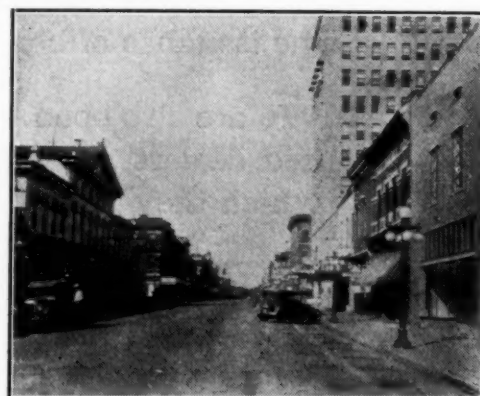
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Capital \$1,000,000

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*If you are interested*

in marketing inactive mills, buying used machinery, etc., we offer the services of an experienced organization capable of handling large or small transactions in an orderly and conscientious manner. We are specialists in disposing of complete textile plants and removal of units to other locations.

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Walnut 0355



# PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close September 19, 1929.

**TREASURY DEPARTMENT**, office of the Supervising Architect, Washington, D. C., August 22, 1929.—**SEALED PROPOSALS** will be opened in this office at 3 P. M. September 19, 1929, for furnishing all labor and material required for additional plumbing fixtures, etc., in the U. S. Marine Hospital at Mobile, Ala. Drawings and specifications may be obtained from the custodian at the U. S. Marine Hospital, Mobile, Alabama, or at this office, in the discretion of the Supervising Architect. **JAS. A. WETMORE**, Acting Supervising Architect.

Bids close September 10, 1929.

## \$100,000 5% Municipal Bonds

Griffin, Ga.

The City of Griffin, Georgia, will receive Sealed Bids for \$100,000 5% Municipal School Bonds on September 10, 1929. Particulars gladly furnished by E. P. Bridges, City Manager. City reserves right to reject any and all bids.

J. P. NICHOLS, Chairman.

Bids close September 10, 1929.

## \$290,000 5½% Highway Bonds

Columbia, S. C.

**SEALED BIDS**, addressed to the undersigned, will be received by the County Board of Directors of Kershaw County at the office of the State Treasurer, Columbia, S. C., until Tuesday,

SEPTEMBER 10th, 1929.

at 12 o'clock M. for the purchase of \$290,000 Highway bonds of Kershaw County, South Carolina, maturing as follows, viz.: \$4,000 of bonds on Feb. 1, 1930; \$7,000 of bonds on Feb. 1, 1931; \$9,000 of bonds on Feb. 1, 1932; \$11,000 of bonds on Feb. 1, 1933; \$14,000 of bonds on Feb. 1, 1934; \$17,000 of bonds on Feb. 1, 1935; \$21,000 of bonds on Feb. 1, 1936; \$24,000 of bonds on Feb. 1, 1937; \$27,000 of bonds on Feb. 1, 1938; \$21,000 of bonds on Feb. 1, 1939; \$25,000 of bonds on Feb. 1st of each of the years 1940 to 1942, inclusive, and \$15,000 of bonds on Feb. 1st of each of the years 1943 to 1946, inclusive.

Interest rate five and one-half per centum (5½%) per annum, payable semi-annually (February 1 and August 1), beginning February 1, 1930. Coupon bonds, payable in New York in gold. Denomination \$1,000. General obligations. Unlimited tax. The payment of these bonds is secured not only by an unlimited tax, but also by a so-called Reimbursement Agreement between the County and the State Highway Commission of South Carolina, the bonds being issued for the construction of State Highways.

Purchasers will be furnished with approving opinion of Messrs. Reed, Hoyt & Washburn of New York.

The right is reserved to reject any and all bids.

A certified check, payable to the order of the County, or cash for 2% of the amount of bonds bid for must accompany bid.

Dated August 6, 1929.

**LAURENS T. MILLS**,  
Clerk, County Board of Directors of  
Kershaw County.

Bids close September 6, 1929.

### Bridge

**DEPARTMENT OF PUBLIC WORKS**  
**STATE OF MARYLAND**  
**STATE ROADS COMMISSION**

#### NOTICE TO CONTRACTORS

Baltimore, Md.

**SEALED PROPOSALS** for building a bridge as follows:

Montgomery County, Cont. M-77—Triple-span (approximately 100 ft. between abutments) steel and concrete bridge over the tracks of the Baltimore and Ohio Railroad Company at Kensington along the line of Lincoln Avenue produced, including all necessary retaining walls for the earth approaches, which earth approaches will be made under a separate contract.

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets,

Baltimore, Maryland, until 12 M. on the 6th day of September, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 26th day of August, 1929.

**G. CLINTON UHL**, Chairman.  
**L. H. STEUART**, Secretary.

Bids close September 5, 1929.

### Bridge

**DEPARTMENT OF PUBLIC WORKS**  
**STATE OF MARYLAND**  
**STATE ROADS COMMISSION**

#### NOTICE TO CONTRACTORS

Baltimore, Md.

**SEALED PROPOSALS** for building a bridge as follows:

Cecil County, Cont. Ce-78—Single span reinforced concrete arch bridge, approximately 70-ft. span, with a 24-ft. 0-in. clear roadway, over Big Elk Creek on the road from Fair Hill to Appleton, together with all the necessary fill, surfacing, etc.

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 5th day of September, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 21st day of August, 1929.

**G. CLINTON UHL**, Chairman.  
**L. H. STEUART**, Secretary.

Bids close September 3, 1929.

### Highway Construction

**DEPARTMENT OF PUBLIC WORKS**  
**STATE OF MARYLAND**  
**STATE ROADS COMMISSION**

#### NOTICE TO CONTRACTORS

Baltimore, Md.

**SEALED PROPOSALS** for building four sections of State Highway as follows:

Allegany County, Cont. A-62—One section of State Highway along the National Pike from the top of Green Ridge to the Washington County Line, a distance of 7.9 miles. (Concrete Shoulders.)

Montgomery County, Cont. M-121—One section of State Highway along the Brookville-Sunshine Road from the end of Cont. M-95 to Sunshine, a distance of 1.25 miles. (Concrete.)

Montgomery County, Cont. M-65—One section of State Highway from Dickerson toward Sugarloaf Mountain, a distance of 1.0 mile, and from Dickerson toward Martinsburg, a distance of 1.2 miles,

making a total distance of 2.2 miles. (Concrete.)

Prince George's County, Cont. P-78—One section of State Highway along the River Road from the Defense Highway to the beginning of Cont. P-73, a distance of 1.2 miles. (Concrete.)

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 3rd day of September, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 20th day of August, 1929.

**G. CLINTON UHL**, Chairman.  
**L. H. STEUART**, Secretary.

Bids close September 9, 1929.

### Street Improvements

Easton, Md.

Sealed proposals will be received at 1.30 o'clock P. M. on the ninth day of September, 1929, by the Mayor and Council of Easton, Maryland, for the construction of about 2100 lineal feet of Concrete Curb and Gutters.

Proposal blanks, contract and specifications may be obtained from the Town Clerk or Town Engineer. A certified check for \$100.00 (one hundred dollars) must accompany each bid. The right is reserved to reject any or all bids.

**RICHARD GOLDSBOROUGH**,  
Town Clerk.

**E. G. KASTENHUBER, JR.**,  
Town Engineer.

Bids close September 3, 1929.

### Street Improvements

Baldwyn, Miss.

Sealed bids will be received by the Town of Baldwyn, Mississippi, at the office of the Mayor until 8 P. M. September 3, 1929, and at that time publicly opened, for certain grading, storm sewers, curb and gutter and paving, the same being on streets, etc., set out in Improvement Ordinance No. 1. The principal items of work are approximately as follows: 2900 Cu. Yds. Earth Excavation, 2700 Lin. Ft. Curb and Gutter, 60 Lin. Ft. 42-inch Storm Sewer, 500 Lin. Ft. 15-inch Storm Sewer, 12 Storm Sewer Inlets, 5900 Sq. Yds. Paving, either Sheet Asphalt, Warrenite Bitulithic, Willite Sheet Asphalt, Asphalt Concrete, Limestone Rock Asphalt laid on a 6-inch or reconstructed gravel base or Portland Cement Concrete Paving six (6) inches thick.

Plans and specifications are on file in the office of the Mayor at Baldwyn, Mississippi, and in the office of the Consulting Engineer at Birmingham, Alabama. Specifications and proposal blanks can be secured on deposit of \$5.00 from the undersigned or from the Consulting Engineers. Copy of the plans will be mailed by the Consulting Engineers on receipt of payment (not deposit) of \$5.00.

The right to reject any or all bids is reserved.

Cash, certified check or proposal bond for One Thousand Dollars, made payable to the Town of Baldwyn, Mississippi, must accompany each bid as evidence of good faith and as a guarantee that, if awarded contract, the bidder will execute the contract and give bond as required.

**T. C. GOWER**, Mayor.

**ROBT. L. TOTTEN, INC.**,  
Consulting Engineers,  
Birmingham, Alabama.



Bids close September 17, 1929.

**Street Paving**

Houston, Miss.

Sealed bids for the construction of street paving improvements at Houston, Mississippi, will be received by the Mayor and Board of Aldermen at the office of the Town Clerk until 4.30 P. M. Tuesday, September 17, 1929, at which time and place they will be opened and read publicly.

The work comprises grading, drainage, concrete curb and gutters and Cement Concrete Paving.

Approximate quantities of principal items: 28,150 Square Yards Paving.

9,650 Lin. Ft. Concrete Curb and Gutter.

Plans and specifications may be examined at the office of the Town Clerk in Houston, Mississippi, or at the office of the Engineers, or a copy may be obtained from the Engineers upon receipt of a deposit of ten dollars, of which amount five dollars will be refunded when the plans and specifications are returned in good condition.

The right is reserved to reject any or all bids and to waive informalities.

Each bid must be accompanied by a certified check, drawn on a responsible bank or trust company, and made payable to the Town of Houston, Mississippi, for a sum not less than 1% of the bid; or a bidder's bond for the same amount by a surety company authorized to do business in the State of Mississippi. The successful bidder will be required to furnish performance bond in the sum of 100% of the contract price and one year maintenance bond. The contractor will be paid in cash monthly on the basis of 90% of the value of the work done and materials furnished. Contract will be awarded to the lowest bidder.

If further information is desired, address the Engineers.

ASHTON TOOMER, Mayor.

R. F. BRAND, Town Clerk.

KLYCE & HARRUB, Engineers,  
705 Fourth and First Nat'l Bank Bldg.,  
Nashville, Tenn.

Bids close September 16, 1929.

**Sewerage System**

Easton, Md.

Sealed proposals for the construction of certain extensions to the Sewerage System of Easton, Maryland, will be received and opened by the Easton Utilities Commission at its office in Easton, Maryland, at two o'clock P. M. on Monday, the sixteenth day of September, 1929.

The work to be done comprises the complete construction of approximately 17,500 lineal feet of 8" to 12" pipe Sewers, together with manholes, flushing manholes and house connections.

Form of contract, specifications, proposal blanks and plans may be had of the Town Engineer or at the office of the Easton Utilities Commission. Plans will be fur-

nished upon a payment of five (5) dollars for each set.

Each proposal for the work must be accompanied by a certified check, drawn to the order of the Easton Utilities Commission, in the sum of one thousand dollars (\$1000). The Easton Utilities Commission reserves the right to reject any or all bids or to accept any bid which it deems serves the best interests of the Town of Easton.

THE EASTON UTILITIES COMMISSION.  
S. E. SHANAHAN, Secretary.  
E. G. KASTENHUBER, JR.,  
Town Engineer.

Bids close September 20, 1929.

**Waterworks Improvements**

Lafayette, La.

Sealed proposals will be received by the City of Lafayette, Louisiana, at the office of the Mayor until 10 A. M. o'clock September 20th, 1929, for the furnishing of labor, material and equipment, construction of a Water Filtration Plant, Pumps, repairs to pumps, Water Meters installed and accessories in and for the City of Lafayette, Louisiana.

The work embraces approximately the following:

- 1—1,500,000 Gallon Filter Plant.
- 1—200,000 Gallon Reservoir.
- 1—Deep Well with Pump.
- 1—Wash Water Pump.
- 1500—Water Meters and Installation,
- Pipe Line Extensions and Additions, Accessories.

This is a General Contractor's job except for the pumps and meters. The other equipment and supplies will be furnished by the Contractors on the several items.

The specifications may be seen at the Mayor's office or the office of the Engineers. Copies may be secured from the above places on deposit of \$5.00, which will be returned to bona fide bidders, but not returned to those not bidders.

Plans may be seen at the above places, and copies may be secured from the Engineers on payment of \$15.00 for Filter Plans.

Each bid must be accompanied by a certified check or bidder's bond acceptable to the City Trustees for 5% of the amount bid.

A bond in the sum of 50% of the amount of the contract will be required for the faithful performance of the contract.

The city reserves the right to reject any or all bids, or to award the contract by sections or groups of similar items to different contractors, if found to the best interest of the city.

CITY OF LAFAYETTE, LOUISIANA.

J. GILBERT ST. JULIAN, Mayor,

Trustee of Public Safety.

LOUIS CHOPIN,

Trustee of Finance.

WILSON J. PECK,

Trustee of Public Property.

Engineers

THE J. B. McCRARY COMPANY,  
Atlanta, Georgia.

Bids close September 16, 1929.

**Waterworks Pumping Station and Equipment**

Delray Beach, Florida.

Sealed Proposals will be received by the City Council of Delray Beach, Florida, until 10 A. M. Monday, September 16, 1929, for the construction of a masonry water works pumping station; for furnishing and installing four motor-driven and one engine-driven centrifugal pumping units; for constructing a 75,000-gallon masonry storage reservoir; and for other requirements, in accordance with Plans and Specifications on file with the City Clerk at the City Hall, Delray Beach, where bids will be received and publicly opened and read.

Plans and Bid Book containing Proposal Sheets, Specifications, etc., may be procured from the Engineers by depositing Fifteen Dollars, one-half of which is refundable to bona fide bidders and one-fifth to non-bidders, upon prompt return of the documents in good condition.

The customary rights of waiving technicalities and rejection of any and all bids are reserved by the City Council.

CITY OF DELRAY BEACH.

LYSLE W. JOHNSON, Mayor.

LOT L. SMITH,

Chairman Water Committee.

ARTHUR BARTON,

City Clerk and Treasurer.

MAIN ENGINEERING CO., INC.,  
Engineers,  
112 Marion St., Daytona Beach, Fla.

Bids close September 17, 1929.

**Junior High School Building**

Greenville, Miss.

Sealed bids will be received by the Board of School Trustees of Greenville, Mississippi, until two o'clock P. M. September 17, 1929, for doing all of the work and furnishing all of the materials necessary to complete a Junior High School building according to plans and specifications prepared therefor by N. W. Overstreet, Architect, Jackson, Mississippi.

Plans, specifications and blank forms for bids will be mailed to contractors by the Board of School Trustees of Greenville, Mississippi, when request is accompanied by check for \$25.00, which amount will be refunded only upon receipt of a bona fide bid accompanied by a certified check and the return of the plans on or before the date named above.

Plumbing, heating and electrical work will be let at the same time but under separate contracts.

The right is reserved to reject any and all bids and to waive any informalities in the bids.

BOARD OF SCHOOL TRUSTEES.

By H. W. STARLING, President,  
Greenville, Mississippi.

# CLASSIFIED OPPORTUNITIES

**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

BENTONITE, FULLER'S EARTH, BAUXITE, JUG and POTTERY CLAYS, FIRE CLAY, BRICK and TILE CLAYS and GLASS SAND

are to be found in the territory served by the Gulf, Mobile & Northern Railroad. Through this section of Mississippi will run the new \$35,000,000 natural gas line which is being constructed from the Monroe and Richland natural gas fields of Louisiana.

White and colored labor; water and high tension power line available.

Tax abatement on new industries for five years.

Opportunity for new operations under very favorable conditions.

For full facts and information write  
HENRY MACE PAYNE, Geologist,  
Gulf, Mobile and Northern R. R.,  
841 Munsey Building,  
Washington, D. C.

**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

FOR SALE OR LEASE—Large deposit of silica rock, 95% pure, for manufacture of fire brick, quartz, glass and building stone, etc. Karl Uschmann, R. 3, Cullman, Ala.

NEW MEXICO—I offer from 40 to 4000 acres, new 5 year oil and gas leases in Quay County, New Mexico, at 33 cents per acre; title perfect; annual rentals only 5 cents per acre. For maps and details address Frank Strickland, Sapulpa, Oklahoma.

FOR SALE—Several tracts of mineral rights. Have one tract of 16,000 acres, another of 715 acres, which have been core-drilled and open pitted. Our geological report gives 240,000,000 tons of Rock Asphalt on the large tract and 4,000,000 tons on the small tract. For complete data address W. P. HARLEY, Bowling Green, Ky.

**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

TIMBER AND TIMBER LAND

MEXICO TIMBER, pine, near Ry.; 25c and finest hardwoods known on river to sea, 35c per M; tracts to suit. Details to good co-operatives. Wellsford, Laredo, Texas.

OWNER OFFERING 2600 ACRES VIRGIN HARDWOOD TIMBER, LOCATED ON MACADAMIZED ROAD six miles from shipping point on main line C. & O. R. R. in Va. at sacrifice price, \$16 per acre. Proprietor Central Hotel, Point Pleasant, Penna.

FARM AND TIMBER LAND

TIMBER TRACTS, large and small, direct from owner. Also sugar lands in the Everglades adjoining the Southern Sugar Co.'s plantation. This is one of Florida's greatest assets, and now is the time to buy. We specialize in exchange of property. P. JOHN HART REALTY & INVESTMENT CORPORATION, Fort Myers, Florida.

## FARM AND TIMBER LANDS

2200 ACRES (600 open, 1600 heavily timbered, hardwood); fine farm home, splendid barn; fenced all around; gravel road through; 7 miles Port Gibson, Claiborne Co., Miss. Merchantable timber, estimated 3,000,000 to 5,000,000 feet. Gentleman's estate, stockraisers, hunters' paradise; deer, squirrel, coon, possum, fishing; \$15 acre. BARBOUR, Box 485, Vicksburg, Miss.

## GAME PRESERVE AND TIMBER TRACT

VIRGINIA GAME PRESERVE and timber tract, 7000 acres; one of the best; sacrifice price to settle estate. Wild turkeys in abundance; warden in charge. \$40,000 lodge, completely furnished; 10 rooms, 6 baths, lights and furnace. \$125,000; immediate possession. W. T. BAILEY, Suffolk, Va.,

## FARM, FRUIT AND TRUCK LANDS

## ALABAMA

WANTED—To get in touch with people interested in dairying, hog, poultry and sheep raising in the Sunny South. All-year-round climate, good water, good health. Have a number of ideal farms with good pastures; some have flowing artesian wells on them; will grow anything. Can be bought or rented, cheap.

OZARK CHAMBER OF COMMERCE,  
H. B. DOWLING, Secretary.  
Ozark, Ala.

## ARKANSAS

FOR SALE—1400-acre stock, grain or cotton farm, situated in Little River County, Ark. Well supplied with houses, barns and water. Very productive. A BARGAIN. Write G. COX, Waldron, Ark.

## GEORGIA

85 ACRES in mountains, four miles from Jasper, Ga., across the Jasper Road from Shrine Chanters' Clubhouse and a short distance from resort development. Adjoining property subdivided sold for \$100 an acre. Beautifully located at fork of Jasper and Ellijay Roads. Forty acres planted, 80 fruit trees, 40 grapevines, two log cabins, barns, well, rock spring, and clear trout branch. Only \$30 an acre.

LEON POJAUUD,  
P. O. Box 538, Atlanta, Ga.

732 ACRES 4 miles out, public road, large 2-story anti-bellum dwelling, lights, water, sewerage, overseer and tenant houses, barns, garage, tobacco barn; 500 acres in cultivation and pasture, all fenced; running water, timber, fruit trees; a typical southern winter or summer home; for dairying, stock or general farming. If you want the best this will suit. Write for full particulars, price and terms.

T. B. RAGAN,  
Hawkinsville, Ga.

## LOUISIANA

## FOR SALE

200 ACRES, with river frontage, St. Charles Parish; industrial center. Address Box 37, St. Rose, La.

NEW MEXICO AND TEXAS  
MR. OPPORTUNITY AND THE CHIP!  
Said Opportunity to Wide-Awake, "Dare you to knock this chip off my shoulder!" "Wad-da you mean chip?" said Wide-Awake, "you got some cheap land to sell?" "Yes!" said Opportunity, "160 acres only \$3 an acre and 3 miles of a little town and railroad and some credit." "Well, I swan," said Wide-Awake. Ask

JAMES W. KELLY,  
324 North 4th St., Waco, Texas.  
"He'll tell you."

P.S.—Some fine ranches in Texas and New Mexico to sell. Some good improved ones at \$4, \$5 and \$6. From 1000 to 80,000 acres.

OKLAHOMA  
NORTHEASTERN OKLAHOMA  
IN THE OZARKS

Unimproved fruit, poultry, dairy and livestock lands—350 acres \$3.75 per acre, 270 acres on Highway \$4 per acre, 410 acres on Highway, three Springs, \$6.50 per acre.

70 acres improved \$1200; 30 improved \$1000 on Highway. 100 acres livestock farm, 45 in Red Clover, only \$2500.

1600 acres foreclosed black prairie lands in tracts to suit and long time payments \$35 to \$50 per acre. Fine water, climate and soil.

W. B. WOLF, Jay, Oklahoma.

## FARM, FRUIT AND TRUCK LAND

## TEXAS

## FOR SALE

1000-acre tract of good farming land in Atascosa County, Texas, in a body at \$38.00 an acre. Write for description; no trading. W. H. GRAHAM, Cuero, Texas.

## VIRGINIA

HANDSOME OLD VIRGINIA ESTATE—500 acres; delightful sporting section, game in abundance; charming 10-room brick residence, lights and water. Up-to-the-minute improved farm. Home of aristocrats; \$22,000 to settle estate.

W. T. BAILEY, Suffolk, Va.

## SOUTHERN RESORT

## VISIT

MYRTLE BEACH, SOUTH CAROLINA

A popular and attractive  
Mid-South Coastal Resort City  
in the making

## Has

A MOST DELIGHTFUL YEAR ROUND  
CLIMATE

ESPECIALLY IN THE FALL

Municipal Improvements

Modern Hotel facilities

## GOLF

HORSEBACK RIDING—TENNIS

FISHING AND HUNTING

(in season)

## MOTORING

Property values enhancing

Demand increasing

For information write

MYRTLE BEACH INVESTMENT CO.,  
Myrtle Beach, S. C.

## BUSINESS OPPORTUNITIES

LONG TERM LOANS in large amounts made to industrial plants.

THOS. W. GILMER, Attorney,  
Bay Minette, Alabama.

WANTED—Company or party with capital to build practical cotton picker; cost about \$500; can be ready to operate in thirty days. Picks from 800 to 1,000 lbs. without stopping. Susie B. Wheeler, 613 Broadway, Little Rock, Ark.

WANTED—A machine manufactured for rough use, no close machine work that will cost including patterns and auxiliary equipment approximately \$2,500. For a territory machine manufacturing right and contingent disposal right; or reasonably assured credit. For practicalness and sale possibilities address No. 7095, care Manufacturers Record.

## INVESTMENT MONEY WANTED

for loans on South Forestry lands at \$2.50 per acre, to run from five to ten years on notes or bonds secured by first mortgages; owners to contract to protect from fires and cultivate under State regulations; interest at 8%, payable semi-annually.

C. B. HARMAN,  
505 Forsyth Building,  
Atlanta, Ga.

WHEN FLORIDA IS "FULL STEAM AHEAD" you will not find such a proposition as we offer.

A Development inviting closest investigation and requiring but \$5,000 to handle. Buy now and pay when FLORIDA is "FULL STEAM AHEAD."

Detailed information on request. Principals only. Address No. 7094, care Manufacturers Record, Baltimore, Md.

FOR SALE—Situated in Alabama Iron District, the whole or controlling interest in Foundry and Machine Shop now in successful operation, making B & S pressure pipe fittings, valve and service boxes, roadway culvert pipe, manhole frames and covers, catch basins, whiteway post, lintels, door plates, columns and all kinds of grey iron castings up to 5000 pounds. Reason for selling owner wishes to retire from business. Address No. 7093, care Manufacturers Record, Baltimore, Md.

## BUSINESS OPPORTUNITIES

WANTED—Young man with experience in lumber plant with some money to invest, to take charge of \$50,000 plant in best agricultural section of Georgia.

J. W. WOOLFOLK, Fort Vally, Ga.

## FOR SALE

City water works, ice plant and 10-room residence, located in N. C., doing a nice business. Good school and a grade college here. We have exclusive franchise on water works for 40 years. Price \$60,000.00; terms one-half cash, balance over 6 years. Reason for selling, owner has other business away. Address No. 7090, care of Manufacturers Record, Baltimore, Md.

## INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development and zoning made by specialists in locating industries.

## TECHNICAL SERVICE CO.,

Woolworth Building New York City

## FARMS AND FACTORY SITES

LANDS OF ALL KINDS for sale, including plantations, stock farms, improved and unimproved small farms, suburban tracts for development and factory sites. Will cooperate with purchaser in development and resale of properties. ALFRED D. ST. AMANT, Baton Rouge, La.

## FACTORY SITES

WATER POWER SITES in Georgia and Carolinas. One thousand to ten thousand horsepower. Low development cost.

E. L. THOMAS, Belton, S. C.

## 20 INDUSTRIAL SITES

Located within 2½ to 7 miles of the business center of Tampa. All sites have a frontage on Bay of ¼ mile and contain from 75 to 150 acres each. All tracts extend back to paved highway; convenient to two railroads and Tampa's ship channel. Pitch Pine Products Co., American Cyanamid Co. and U. S. Phosphoric Products Corp. have acquired locations and are now operating or have under construction plants that will require the expenditure of millions of dollars. If interested in one or more of these strategic locations, write

W. B. GRAY,  
505 Citizens Bank Bldg.,  
Tampa, Florida.

## FACTORY BUILDINGS

FOR SALE—Building equipped for paint factory 100x50 on lot 115x100. Side tracks, convenient to ship docks; very desirable location. 1929 prices. Address Owner, 2921 El Prado Blvd., Tampa, Fla.

FOR SALE OR LEASE—One three-story brick building, centrally located, 52x80, 1250 square feet floor space; can be made suitable for any manufacturing enterprise adapted to building this size.

ELBERT SALES CO., Elberton, Ga.

## INDUSTRIAL PLANTS

WRITE FANTUS for factories anywhere. Wonderful values in buildings or equipped plants. Valuable industrial sites free of cost to established industries. For America's best buys, address Fantus Factory Locating Service, 139 North Clark Street, Chicago.

IF YOU ARE INTERESTED in buying a furniture factory, fully equipped, for less than half what you can build the same, in fine location along the B. & O. R. R. siding, with the cheapest electric power rate in the state, plenty of skilled labor at reasonable wages, centrally located, best distributing point in the U. S., I have it for you. I bought at a Mortgage Sale very cheap, and will sell quick.

Same consists of a 3-story Brick Factory Building, 50x100, with large dry kiln, steam plant and electric motors; 4-story Brick Warehouse, 40x70; 1-story Stock Room; 2-story Office Building, 24x14, and small Garage. Lots 320 ft. facing Spruce St., 80 ft. facing Garrett St.; 320 ft. located along the R. R. & A. and 200x10 ft. alley south. Would also rent straight or with option to buy. D. RAMACCIOTTI, Hagerstown, Md.

P. S.—For rent, 1 to 4 floors, 93x36, fireproof, elevator service.